

CITY OF LONDON 2016 DRINKING WATER SUMMARY REPORT

System Name: City of London Distribution System

Mailing Address: Corporation of the City of London
P.O. Box 5035, 300 Dufferin Ave.

London, ON N6A 4L9



System Rating:

Water Distribution Subsystem Class IV
Water Treatment Subsystem Class II
Average Day Demand: 127.00 MLD
Peak Day Demand: 179.63 MLD (July 5, 2016)
Population Served: 381,000 (approx.)
Source Water: Surface Water (Lake Huron, Lake Erie)
Drinking Water System Number: 260004917
Municipal Drinking Water Licence: 006-101

CONTACT INFO:

Owner:
Corporation of the City of London
300 Dufferin Avenue, London, Ontario N6A 4L9
Contact: Mr. John Simon, P.Eng. Division Manager Water
Operations
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Reporting Requirements

Ontario Regulation 170/03 requires that municipalities prepare a *Summary Report* for their drinking-water system for the preceding calendar year and submit it to the members of the Municipal Council by March 31 of each year. This report, presented to Municipal Council's Civic Works Committee on February 7, 2017 fulfills that requirement.

O. Reg 170/03 also requires the preparation of an *Annual Report* on the operation of the drinking-water system to be made available to members of the public.

Before February 24, 2017, a copy of the 2016 Annual Report and Summary Report for the City of London's water works will be provided to the local office of the Ministry of the Environment and Climate Change (MOECC) as a courtesy for information purposes.

The Elgin-Middlesex Pumping Station (EMPS) is jointly owned by the St. Thomas Secondary Water Supply System, the Aylmer Secondary Water Supply System, and the City of London. EMPS is operated by the Ontario Clean Water Agency (OCWA). The Annual Report for the EMPS (London portion) was not yet available at the time of writing this report, and will be provided to members of Council under separate memo prior to the reporting deadline of February 28, 2017.

Ministry of the Environment and Climate Change Annual Inspection (MOECC)

MOECC inspections can be in the form of comprehensive detailed inspections, or less intensive focused inspections. The MOECC selected London's Water Distribution System for a focused inspection in 2016.

The MOECC inspection, conducted on December 7, 2016, included staff interviews and facility inspections, as well as a review of operating procedures, water analysis reports, operational records, and staff certification and training records.

On January 10, 2017, the MOECC issued the *City of London Water Distribution System Inspection Report*. The report summarizes the inspection findings, and lists any incidents of non-compliance with regulatory requirements. The City of London received a Final Inspection Rating of 96.05% for 2016.

A full report on this MOECC Inspection is being presented to the Civic Works Committee on February 7, 2017.

London purchases treated water from the Lake Huron and Elgin Area Primary Water Supply Systems. They are also required to report annually and distribute that report which is available at <http://www.watersupply.london.ca/reports.html>

Water Operations Staff Complement and Training

In 2016, the distribution system was operated and maintained by four (4) Water Supply staff, thirty-one (31) Operations and Maintenance staff, three (3) Waterworks Inspectors, eight (8) Meter Shop staff, five (5) Waterworks Supervisors, two (2) Technologists, two (2) Administrative staff, and four (4) Management staff. This complement does not include senior administrative staff of the Water Service Area. The majority of the City of London's operational and maintenance staff are based at the A.J. Tyler Operations Centre, located at 663 Bathurst Street. Water Supply staff are based out of the London Hydro building at 111 Horton Street.

All employees with Drinking Water Operator Certificates receive a minimum of 14 hours of Director-approved training and an additional 36 hours of practical, on-the-job training each year, as mandated by Regulation.

Water Budget

The approved 2016-2019 operating and capital budgets represent financial sustainability for Londoners, whereby annual rate increases are approximately the average of the Consumer Price Index (CPI) and the Non-Residential Building Construction Price Index (NRBCPI). The 2016-2019 water operating and capital budgets support four core business objectives:

- Compliance
- Financial Management
- Customer Service
- Best Management Practices

The total Water budget for 2016 was \$73.8 million, which includes long term infrastructure renewal and replacement plans. The Water Budget helps maintain *London's Advantage* of a safe, clean and secure water supply. The Water Service Area remains proactive in initiatives to ensure that this service continues to meet the demands and expectations of customers. Existing infrastructure requires ongoing renewal (replacement and rehabilitation) activities to manage the infrastructure gap, ensuring that future generations are not faced with a water system that is failing, unreliable, and expensive to maintain.

Emerging Trends in Water Treatment & Regulations

Water Treatment: The City of London purchases its treated drinking water from the Joint Boards of Management (Lake Huron and Elgin Area Primary Water Supply Systems). The Joint Boards of Management, through the Regional Water Supply Division, stay abreast of emerging trends in water treatment and monitor upcoming regulation changes. Current areas of interest include Microbiological (E. coli and Total Coliform), Disinfection By-Products (Trihalomethanes -THMs, Haloacetic Acids – HAAs), Lead and Copper, and Emerging Pathogens and Chemicals.

There are long-term water quality concerns that continue to be investigated and monitored; however, the current water treatment systems are well positioned to treat the source water to the current Provincial Standards and Regulations. Accordingly, beyond efforts to address current treatment performance assessments and optimization/efficiency programs, there are currently no active drivers that might lead to wholesale changes in the treatment systems and utilization of advanced treatment technologies. For further information on emerging trends in water treatment and Regulations, refer to the Lake Huron and Elgin Area Water Supply Systems Master Plans, which can be found at <http://www.watersupply.london.ca/reports.html>

Sampling & Water Quality Monitoring

In 2016, the MOECC required large municipal drinking water systems to test for 70 different organic, inorganic and chemical parameters. The City of London's water sampling regime includes monthly testing for microbiological indicators and chlorine residuals from 57 standard locations across the City, as well as more than 2,800 random grab samples annually. Analysis is also performed for up to 112 parameters, including organics, inorganics, chemicals, pesticides and metals at 13 standard locations around the City. In addition, 764 samples were analysed from London's stand-by wells. This level of testing far exceeds the MOECC's minimum sampling requirements.

London also has 10 locations throughout the City where continuous in-line sampling of chlorine residual and pH is monitored. Staff also perform approximately 4,000 additional chlorine tests each year related to construction and maintenance activities. All of these efforts help ensure that the water within the distribution system is always of high quality.

2016 Water Quality Sampling Summary

Parameter	Ontario Maximum Acceptable Concentration (MAC)	Units	Lab's Method Detection Limit (MDL)	Measured Concentrations	MAC Exceedance (Y/N)
				2016	
REGULATED INORGANICS					
Antimony	6	ug/L	0.02	0.29 - 0.34	No
Arsenic	25	ug/L	0.2	1 - 1.7	No
Barium	1000	ug/L	0.02	13.8 - 20.8	No
Boron	5000	ug/L	0.2	16 - 22	No
Cadmium	5	ug/L	0.003	0.003 - 0.008	No
Chromium	50	ug/L	0.03	0.46 - 0.53	No
Fluoride	1.5	mg/L	0.06	0.06 - 0.83	No
Free Chlorine Residual	4.0	mg/L	N/A	0.2 - 1.2	No
Mercury	1	ug/L	0.01	<MDL	No
Selenium	10	ug/L	0.04	0.17 - 0.24	No
Sodium	*20	mg/L	0.01	10.8 - 16.9	No
Uranium	20	ug/L	0.002	0.036 - 0.073	No

Parameter	Ontario Maximum Acceptable Concentration (MAC)	Units	Lab's Method Detection Limit (MDL)	Measured Concentrations	MAC Exceedance (Y/N)
				2016	
REGULATED ORGANICS					
Atrazine	--	ug/L	0.01	0.01 - 0.03	No
Atrazine + N-dealkylated metabolites	5	ug/L	0.01	0.01 - 0.05	No
De-ethylated Atrazine	--	ug/L	0.01	<MDL	No
Azinphos-methyl	20	ug/L	0.05	<MDL	No
Benzene	5	ug/L	0.32	<MDL	No
Benzo(a)pyrene	0.01	ug/L	0.004	<MDL	No
Bromoxynil	5	ug/L	0.33	<MDL	No
Carbaryl	90	ug/L	0.05	<MDL	No
Carbofuran	90	ug/L	0.01	<MDL	No
Carbon tetrachloride	5	ug/L	0.16	<MDL	No

Parameter	Ontario Maximum Acceptable Concentration (MAC)	Units	Lab's Method Detection Limit (MDL)	Measured Concentrations	MAC Exceedance (Y/N)
				2016	
REGULATED ORGANICS CONTINUED					
Chlorpyrifos	90	ug/L	0.02	<MDL	No
Diazinon	20	ug/L	0.02	<MDL	No
Dicamba	120	ug/L	0.2	<MDL	No
1,2-Dichlorobenzene	200	ug/L	0.41	<MDL	No
1,4-Dichlorobenzene	5	ug/L	0.36	<MDL	No
1,2-Dichloroethane	5	ug/L	0.35	<MDL	No
Dichloromethane	50	ug/L	0.35	<MDL	No
2,4-dichlorophenol	900	ug/L	0.15	<MDL	No
2,4-D	100	ug/L	0.19	<MDL	No
Diclofop-methyl	9	ug/L	0.4	<MDL	No
Dimethoate	20	ug/L	0.03	<MDL	No
Diquat	70	ug/L	1	<MDL	No
Diuron	150	ug/L	0.03	<MDL	No
Glyphosate	280	ug/L	1	<MDL	No
Malathion	190	ug/L	0.02	<MDL	No
MCPA	--	--	0.00012	<MDL	No
Metolachlor	50	ug/L	0.01	<MDL	No
Metribuzin	80	ug/L	0.02	<MDL	No
Monochlorobenzene	80	ug/L	0.3	<MDL	No
Paraquat	10	ug/L	1	<MDL	No
Pentachlorophenol	--	--	0.15	<MDL	No
Phorate	2	ug/L	0.01	<MDL	No
Picloram	190	ug/L	1	<MDL	No
Polychlorinated Biphenyls (PCBs)	3	ug/L	0.04	<MDL	No
Prometryne	1	ug/L	0.03	<MDL	No
Simazine	10	ug/L	0.01	<MDL	No
Terbufos	1	ug/L	0.01	<MDL	No
2,3,4,6-tetrachlorophenol	100	ug/L	0.2	<MDL	No
Triallate	230	ug/L	0.01	<MDL	No
Trichloroethylene	50	ug/L	0.44	<MDL	No
2,4,6-trichlorophenol	5	ug/L	0.25	<MDL	No
Trifluralin	45	ug/L	0.02	<MDL	No
Vinyl Chloride	2	ug/L	0.17	<MDL	No

Parameter	Ontario Maximum Acceptable Concentration (MAC)	Units	Lab's Method Detection Limit (MDL)	Measured Concentrations	MAC Exceedance (Y/N)
				2016	
NON-REGULATED INORGANICS/ORGANICS					
Alkalinity	500	mg/L as CaCO ₃	2	73 - 88	No
Aluminum	100.000	ug/L	0.3	21.7 - 30.9	No
Ammonia+Ammonium (N)	--	mg/L	0.04	0.04 - 0.09	No
Calcium	--	mg/L	0.01	27.6 - 34.4	No
Chloride	250.000	mg/L	0.04	9 - 17	No
Cobalt	--	ug/L	0.004	0.005 - 0.02	No
Colour	--	TCU	3	<MDL	No
Conductivity	--	uS/cm	2	254 - 297	No
Copper	--	ug/L	0.02	2.31 - 3.18	No

Parameter	Ontario Maximum Acceptable Concentration (MAC)	Units	Lab's Method Detection Limit (MDL)	Measured Concentrations	MAC Exceedance (Y/N)
				2016	
NON-REGULATED INORGANICS/ORGANICS					
Cyanide	0.2	mg/L	0.002	<MDL	No
1,1-Dichloroethylene	14	ug/L	0.33	<MDL	No
Dissolved Organic Carbon	--	mg/L	0.2	1.3 - 1.8	No
Ethylbenzene	--	ug/L	0.33	<MDL	No
Hardness	--	mg/L as CaCO ₃	0.05	101 - 122	No
Iron	--	ug/L	7	7 - 12	No
Langelier's Index	--	--	--	-0.3 - -0.29	No
Magnesium	--	mg/L	0.001	7.78 - 8.78	No
Manganese	--	ug/L	0.01	0.06 - 0.46	No
Nickel	--	ug/L	0.1	0.3 - 0.6	No
Nitrogen-Kjeldahl (N)	--	mg/L	0.05	0.14 - 0.2	No
Organic Nitrogen	--	mg/L	0.05	0.05 - 0.2	No
pH	--	no unit	0.05	7.84 - 8	No
Phosphorus	--	mg/L	0.003	<MDL	No
Potassium	--	mg/L	0.003	0.996 - 1.5	No
Silica Dioxide	--	mg/L	0.04	0.94 - 1.99	No
Silver	--	ug/L	0.002	<MDL	No
Solids (Total Dissolved)	--	mg/L	30	140 - 183	No
Sulphate	--	mg/L	0.04	<MDL	No
Sulphide	--	mg/L	0.006	<MDL	No
Surr 1,2-Dichloroethane-d4	--	Surr Rec %	0	104 - 105	No
Surr 4-Bromofluorobenzene	--	Surr Rec %	0	87 - 88	No
Surr Decachlorobiphenyl	--	%	0	68 - 73	No
Tetrachloroethylene (perchloroethylene)	30	ug/L	0.35	<MDL	No
Toluene	--	ug/L	0.36	<MDL	No
Toxaphene	--	ug/L	5	<MDL	No
2,4,5-TP (Silvex)	--	ug/L	0.18	<MDL	No
Turbidity	1	NTU	0.1	0.16 - 0.36	No
Xylene (Total)	--	ug/L	0.43	<MDL	No
m/p-xylene	--	ug/L	0.43	<MDL	No
o-xylene	--	ug/L	0.17	<MDL	No
Zinc	--	ug/L	2	<MDL	No

Parameter	Ontario Maximum Acceptable Concentration (MAC)	Units	Lab's Method Detection Limit (MDL)	Measured Concentrations	MAC Exceedance (Y/N)
				2016	
NITRATES					
Nitrate (as nitrogen)	10	mg/L	0.006	0.251 - 1.02	No
Nitrate + Nitrite (as nitrogen)	10	mg/L	0.006	0.251 - 1.02	No
Nitrite (as nitrogen)	1	mg/L	0.003	0.005 - 1.7	No

Parameter	Ontario Maximum Acceptable Concentration (MAC)	Units	Lab's Method Detection Limit (MDL)	Measured Concentrations	MAC Exceedance (Y/N)
				2016	
TRIHALOMETHANES					
Trihalomethanes (total)	100 (RAA)	ug/L	0.37	13 - 21	No
Bromoform	--	ug/L	0.34	<MDL	No
Chloroform	--	ug/L	0.29	6.2 - 12	No
Dibromochloromethane	--	ug/L	0.37	1.5 - 3	No
Bromodichloromethane	--	ug/L	0.26	4.8 - 6.4	No

Parameter	Ontario Maximum Acceptable Concentration (MAC)	Units	Lab's Method Detection Limit (MDL)	Measured Concentrations	MAC Exceedance (Y/N)
				2016	
MICROBIOLOGICAL					
E. coli	0	cfu/100 mL	0	0 - 0	No
Total Coliform	0	cfu/100 mL	0	0 - 87	Yes
Heterotrophic Plate Count	N/A	cfu/1 mL	10	10 - 2000	No

In 2016, there were six (6) adverse microbiological results out of 2,491 samples taken. Five (5) involved the detection of Total Coliform bacteria (ranging from 1 to 87 cfu/100 mL). One (1) was due to results of "No Data – Overgrown with Non-target Bacteria". In each case, staff implemented the mandatory adverse response procedure, which included notifying the MOECC and the Middlesex-London Health Unit, and immediately re-sampling at each location. The re-sample results revealed no adverse indicators.

In all instances it is highly unlikely that there were 'actual' water quality issues at these sites, as the six adverse samples were identified as having free chlorine residuals which were well above the minimum acceptable level at the time of the sampling (ranging between 0.34 to 0.82 mg/L). E. coli and Coliform bacteria cannot survive in chlorinated water; therefore, it is suspected that post-sampling contamination occurred. The re-sampling results support this conclusion. The microbiological testing procedure is extremely sensitive; accidental sample contamination can occur through operator or

laboratory error, despite the specific procedures and precautions being adhered to while processing samples.

System Statistics and Major Events

During the period from January 1, 2016 through to December 31, 2016 a total of 46,639,508,000 litres of water were purchased, at a cost of more than \$23,500,000, from the Joint Water Boards and subsequently pumped into London via the Arva Pumping Station and EMPS. Average day demand was 127,000,000 litres. Peak day consumption of 179,631,000 litres occurred on July 5, 2016.

A summary of system pumpage can be found starting on page 52. The data includes monthly average and maximum daily flows. These values are also compared to the rated flow rate capacities identified in London's Municipal Drinking Water Licence. There were no occurrences of flow rate exceedance during the specified time period.

Listed below are some 2016 statistics for the City of London Distribution System.

Approximate Replacement Value of Drinking Water System	\$2,700,000,000
Number of Pumping Stations	8
Number of Fire Hydrants	9,053
Number of Watermain Valves	13,018
Total Number of Water Services	113,627
Length of Watermain	1,563 km
Number of Watermain Breaks	75
Number of Water Service Leaks	314

Municipalities Receiving London Water

In the Municipality of Middlesex Centre, the villages of Arva, Ballymote, and Delaware continued to receive their drinking water under contract from the City of London during 2016. The Municipality of Middlesex Centre has been provided a copy of the Annual Report as per O. Reg 170/03.

Several residences within Central Elgin also continued to receive drinking water from the transmission watermain that supplies the City of London from the EMPS. For this reason, Central Elgin has also been provided a copy of the report.

**2016 Annual Report
(London)**



London



Drinking-Water System Number:	260004917
Municipal Drinking-Water Licence:	006-101
Drinking-Water System Name:	London Water Supply
Drinking-Water System Owner:	The Corporation of the City of London
Drinking-Water System Category:	Large Municipal Residential System
Period being reported:	January 1, 2016 to December 31, 2016

<p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>]</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>City of London – City Hall Customer Service Division – 8th Floor (Public Service Information Area) 300 Dufferin Avenue, London, ON</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: N/A</p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? N/A</p> <p>Number of Interested Authorities you report to: N/A</p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [<input type="checkbox"/>] No [<input type="checkbox"/>] N/A [<input checked="" type="checkbox"/>]</p>
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Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
Middlesex Centre Distribution System	260004202
Includes: Arva Waterworks	260004202
Ballymote Waterworks	260004202
Delaware Distribution System	260063323

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water?
Yes [] No []



Indicate how you notified system users that your annual report is available, and is free of charge.

- Public access/notice via the web
- Public access/notice via Government Office
- Public access/notice via a newspaper
- Public access/notice via Public Request
- Public access/notice via a Public Library
- Public access/notice via other method EnviroWorks Pamphlet

Describe your Drinking-Water System

There are two water supplies in the City of London: primary sources of surface water and emergency back-up sources of well water in stand-by mode.

1. Primary Treated Water Sources (surface water)
 - Lake Huron Primary Water Supply System (LHPWSS)
 - Elgin Area Primary Water Supply System (EAPWSS)
2. Stand-by Emergency Wells
 - Fanshawe Well Field (6 Wells) – GUDI with in-situ filtration
 - Hyde Park Well – Not GUDI

During 2016 the London-Elgin-Middlesex Booster Station was operated by a designated Operating Authority that being, Ontario Clean Water Agency. The annual report for the London-Elgin-Middlesex Booster Station was not available at the time this report was created and therefore, it will be provided under separate cover.

List all water treatment chemicals used over this reporting period

- Liquid Chlorine
- Sodium Hypochlorite
- Fluorosilicic Acid (hydrofluorosilicic acid)

Were any significant expenses incurred to?

- Install required equipment
- Repair required equipment
- Replace required equipment

Please provide a brief description and breakdown of monetary expenses incurred

2015 saw a record number of frozen water services due to the extreme severity of the winter. Continued operating costs of approximately \$750,000 annually are associated with remediation of these frozen services. Remediation should be complete by 2020.

Increasing numbers of Water Service Leaks continue to dominate repair/remediation efforts. In excess of 300 water service leaks occurred in 2016, attributing to more than a 4:1 ratio of water service leaks to water main breaks.



Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre.

Bacteriological Adverse							
Adverse Incident Date	Corrective Action	Corrective Action Date	Adverse Water Quality Indicator # (AWQI #)	Parameters			
				E. coli (cfu/100ml)	Total Coliform (cfu/100ml)	HPC / Background (cfu/1ml)	Free Cl ₂ (mg/L)
1/7/2016 ¹			127960	0	1	20	0.68
	Resample	8-Jan-2016		0	0	20	0.68
7/5/2016 ²			130105	0	1	<10	0.82
	Resample	6-Jul-2016		0	0	<10	0.91
8/15/2016 ³			130791	0	2	<10	0.50
	Resample	16-Aug-2016		0	0	<10	0.56
10/4/2016 ⁴			131434	NDOG	NDOG	NDOG	0.64
	Resample	5-Oct-2016		0	0	205	0.77
	Resample	7-Oct-2016		0	0	1	0.91
10/6/2016 ⁵			131480	0	2	6	0.39
	Resample	8-Oct-2016		0	0	0	0.85
11/16/2016 ⁶			131875	0	87	30	0.64
	Resample	17-Nov-2016		0	0	<10	0.67

Notes:

¹**Details:** A Total Coliform count of 1 cfu/100 mL was detected in a sample taken from 723 Lorne Avenue.

Corrective Action: The original site was immediately re-sampled and samples were also taken at sites upstream and downstream from the original site. There were no indicators of adverse water quality in any of the re-sample results. The free chlorine concentration of 0.68 mg/L in the original sample is indicative of a false positive result.

²**Details:** A Total Coliform count of 1 cfu/100 mL was detected in a sample taken from a hydrant at 1650 Hastings Drive.

Corrective Action: The original site was immediately re-sampled and samples were also taken at sites upstream and downstream from the original site. There were no indicators of adverse water quality in any of the re-sample results. The free chlorine concentration of 0.82 mg/L in the original sample is indicative of a false positive result.



³**Details:** A Total Coliform count of 2 cfu/100 mL was detected in a sample taken from a hydrant at 647 Osgoode Drive.

Corrective Action: The original site was immediately re-sampled and samples were also taken at sites upstream and downstream from the original site. There were no indicators of adverse water quality in any of the re-sample results. The free chlorine concentration of 0.50 mg/L in the original sample is indicative of a false positive result.

⁴**Details:** A water sample taken from a fire hydrant at 251 Victoria Street was reported as being "No Data - Overgrown with Non-target Bacteria".

Corrective Action: The original site was immediately re-sampled and samples were also taken at sites upstream and downstream from the original site. The sampling was repeated approximately 40 hours later. There were no indicators of adverse water quality in any of the six (6) re-samples results. The free chlorine concentration of 0.64 mg/L in the original sample is indicative of a false positive result.

⁵**Details:** A Total Coliform count of 2 cfu/100 mL was detected in a sample taken from a hydrant at the northwest corner of Frances Street and Eleanor Street.

Corrective Action: The original site was immediately re-sampled and samples were also taken at sites upstream and downstream from the original site. There were no indicators of adverse water quality in any of the re-sample results. The free chlorine concentration of 0.39 mg/L in the original sample is indicative of a false positive result.

⁶**Details:** A Total Coliform count of 87 cfu/100 mL was detected in a sample taken from 1370 Commissioners Road West.

Corrective Action: The original site was immediately re-sampled and samples were also taken at sites upstream and downstream from the original site. There were no indicators of adverse water quality in any of the re-sample results. The free chlorine concentration of 0.64 mg/L in the original sample is indicative of a false positive result.



Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

	# of E. coli Samples Taken	Range of E. coli (cfu/100mL)	# of Total Coliform Samples Taken	Range of Coliform (cfu/100mL)	# of HPC / Background Samples	Range of HPC (cfu/1mL)
Raw	7	0 - 0	7	0 - 0	7	<10
Treated	N/A	N/A	N/A	N/A	N/A	N/A
Distribution	2491	0 - 0	2491	0 - 87	2491	0 - 2000

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

	# of Grab Samples	Continuous Monitoring	Range of Results
Turbidity	2	N/A	0.16 - 0.36 NTU
Alkalinity	20	N/A	73 - 122 mg/L as CaCO ₃
Lead	10	N/A	0.01 - 0.23 mg/L
Chlorine	2481	87600*	0.12 - 1.22 mg/L
Fluoride	98	8760	0.11 - 0.82 mg/L

*London has 10 locations with continuous online chlorine monitoring

NOTE: For continuous monitors use 8760 as the number of samples.



As outlined below, sampling was carried out in accordance with the requirements listed in the City of London’s 2010 and 2015 Drinking Water Licence for inorganic and organic parameters at the following sites: Fanshawe Wells (No. 1, 2, 3, 4, and 6) and Hyde Park Well.

SITE: Fanshawe Well #1 - Raw

a) INORGANIC PARAMETERS (including lead, sodium, nitrate, nitrite, and fluoride)

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
November 20, 2015	Antimony	21/Jun/16	0.13	ug/L	N
November 20, 2015	Arsenic	21/Jun/16	0.2 <MDL	ug/L	N
November 20, 2015	Barium	21/Jun/16	36.9	ug/L	N
November 20, 2015	Boron	21/Jun/16	81	ug/L	N
November 20, 2015	Cadmium	21/Jun/16	0.008	ug/L	N
November 20, 2015	Chromium	21/Jun/16	0.45	ug/L	N
November 20, 2015	Fluoride	21/Jun/16	0.13	mg/L	N
November 20, 2015	Mercury	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Nitrate (as nitrogen)	9/Mar/16	1	mg/L	N
November 20, 2015	Nitrate (as nitrogen)	9/Mar/16	1.01	mg/L	N
November 20, 2015	Nitrate (as nitrogen)	9/Mar/16	0.008	mg/L	N
November 20, 2015	Nitrate (as nitrogen)	21/Jun/16	0.949	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	21/Jun/16	0.949	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	21/Jun/16	0.003 <MDL	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	7/Sep/16	0.987	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	7/Sep/16	0.987	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	7/Sep/16	0.003 <MDL	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	21/Dec/16	1.03	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	21/Dec/16	1.03	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	21/Dec/16	0.003 <MDL	mg/L	N
November 20, 2015	Selenium	21/Jun/16	0.19	ug/L	N
November 20, 2015	Sodium	21/Jun/16	25.3	mg/L	N
November 20, 2015	Uranium	21/Jun/16	0.616	ug/L	N



b) ORGANIC PARAMETERS (including THM)

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
November 20, 2015	Atrazine	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Atrazine + N-dealkylated metabolites	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	De-ethylated Atrazine	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Azinphos-methyl	21/Jun/16	0.05 <MDL	ug/L	N
November 20, 2015	Benzene	21/Jun/16	0.32 <MDL	ug/L	N
November 20, 2015	Benzo(a)pyrene	21/Jun/16	0.004 <MDL	ug/L	N
November 20, 2015	Bromoxynil	21/Jun/16	0.33 <MDL	ug/L	N
November 20, 2015	Carbaryl	21/Jun/16	0.05 <MDL	ug/L	N
November 20, 2015	Carbofuran	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Carbon tetrachloride	21/Jun/16	0.16 <MDL	ug/L	N
November 20, 2015	Chlorpyrifos	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Diazinon	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Dicamba	21/Jun/16	0.2 <MDL	ug/L	N
November 20, 2015	1,2-Dichlorobenzene	21/Jun/16	0.41 <MDL	ug/L	N
November 20, 2015	1,4-Dichlorobenzene	21/Jun/16	0.36 <MDL	ug/L	N
November 20, 2015	1,2-Dichloroethane	21/Jun/16	0.35 <MDL	ug/L	N
November 20, 2015	Dichloromethane	21/Jun/16	0.35 <MDL	ug/L	N
November 20, 2015	2,4-dichlorophenol	21/Jun/16	0.15 <MDL	ug/L	N
November 20, 2015	2,4-dichlorophenoxyacetic acid (2,4-D)	21/Jun/16	0.19 <MDL	ug/L	N
November 20, 2015	Diclofop-methyl	21/Jun/16	0.4 <MDL	ug/L	N
November 20, 2015	Dimethoate	21/Jun/16	0.03 <MDL	ug/L	N
November 20, 2015	Diquat	21/Jun/16	5 <MDL	ug/L	N
November 20, 2015	Diuron	21/Jun/16	0.03 <MDL	ug/L	N
November 20, 2015	Glyphosate	21/Jun/16	1 <MDL	ug/L	N
November 20, 2015	Malathion	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	MCPA	21/Jun/16	0.00012 <MDL	mg/L	N
November 20, 2015	Metolachlor	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Metribuzin	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Paraquat	21/Jun/16	5 <MDL	ug/L	N
November 20, 2015	Pentachlorophenol	21/Jun/16	0.15 <MDL	ug/L	N
November 20, 2015	Phorate	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Picloram	21/Jun/16	1 <MDL	ug/L	N
November 20, 2015	Polychlorinated Biphenyls (PCBs)	21/Jun/16	0.04 <MDL	ug/L	N
November 20, 2015	Prometryne	21/Jun/16	0.03 <MDL	ug/L	N
November 20, 2015	Simazine	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Terbufos	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	2,3,4,6-tetrachlorophenol	21/Jun/16	0.2 <MDL	ug/L	N
November 20, 2015	Triallate	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Trichloroethylene	21/Jun/16	0.44 <MDL	ug/L	N
November 20, 2015	2,4,6-trichlorophenol	21/Jun/16	0.25 <MDL	ug/L	N
November 20, 2015	Trifluralin	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Vinyl Chloride	21/Jun/16	0.17 <MDL	ug/L	N





c) NON-REGULATED INORGANIC/ORGANIC PARAMETERS

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
November 20, 2015	Alkalinity	21/Jun/16	279	mg/L as CaCO3	N
November 20, 2015	Aluminum	21/Jun/16	0.7	ug/L	N
November 20, 2015	Ammonia+Ammonium (N)	21/Jun/16	0.04 <MDL	mg/L	N
November 20, 2015	Azoxystrobin	21/Jun/16	Notdetected	0/Jan/00	N
November 20, 2015	Calcium	21/Jun/16	115	mg/L	N
November 20, 2015	Chloride	21/Jun/16	53	mg/L	N
November 20, 2015	Chlorothalonil	21/Jun/16	Notdetected	ug/L	N
November 20, 2015	Cobalt	21/Jun/16	0.036	ug/L	N
November 20, 2015	Colour	21/Jun/16	3 <MDL	TCU	N
November 20, 2015	Conductivity	21/Jun/16	764	uS/cm	N
November 20, 2015	Copper	21/Jun/16	2.54	ug/L	N
November 20, 2015	Cyanide	21/Jun/16	0.002 <MDL	mg/L	N
November 20, 2015	1,1-Dichloroethylene (vinylidene chloride)	21/Jun/16	0.33 <MDL	ug/L	N
November 20, 2015	Dissolved Organic Carbon	21/Jun/16	0.6	mg/L	N
November 20, 2015	Ethylbenzene	21/Jun/16	0.33 <MDL	ug/L	N
November 20, 2015	Fludioxonil	21/Jun/16	Notdetected	no unit	N
November 20, 2015	Hardness	21/Jun/16	386	mg/L as CaCO3	N
November 20, 2015	Iron	21/Jun/16	70	ug/L	N
November 20, 2015	Langelier's Index	21/Jun/16	0.38	no unit	N
November 20, 2015	Magnesium	21/Jun/16	24.2	mg/L	N
November 20, 2015	Manganese	21/Jun/16	1.05	ug/L	N
November 20, 2015	Monochlorobenzene	21/Jun/16	0.3 <MDL	ug/L	N
November 20, 2015	Nickel	21/Jun/16	0.3	ug/L	N
November 20, 2015	Nitrogen-Kjeldahl (N)	21/Jun/16	0.17	mg/L	N
November 20, 2015	Organic Nitrogen	21/Jun/16	0.16	mg/L	N
November 20, 2015	pH	21/Jun/16	7.53	no unit	N
November 20, 2015	Phosphorus	21/Jun/16	0.003 <MDL	mg/L	N
November 20, 2015	Potassium	21/Jun/16	2.12	mg/L	N
November 20, 2015	Silica Dioxide	21/Jun/16	9.48	mg/L	N
November 20, 2015	Silver	21/Jun/16	0.002	ug/L	N
November 20, 2015	Solids (Total Dissolved)	21/Jun/16	440	mg/L	N
November 20, 2015	Sulphate	21/Jun/16	45	mg/L	N
November 20, 2015	Sulphide	21/Jun/16	0.006 <MDL	mg/L	N
November 20, 2015	Surr 1,2-Dichloroethane-d4	21/Jun/16	107	Surr Rec %	N
November 20, 2015	Surr 4-Bromofluorobenzene	21/Jun/16	86	Surr Rec %	N
November 20, 2015	Surr Decachlorobiphenyl	21/Jun/16	66	%	N
November 20, 2015	Tetrachloroethylene (perchloroethylene)	21/Jun/16	0.350 <MDL	ug/L	N
November 20, 2015	Toluene	21/Jun/16	0.360 <MDL	ug/L	N
November 20, 2015	2,4,5-TP (Silvex)	21/Jun/16	0.180 <MDL	ug/L	N
November 20, 2015	Toxaphene	21/Jun/16	5.000 <MDL	ug/L	N
November 20, 2015	Turbidity	21/Jun/16	1.41	NTU	N
November 20, 2015	Xylene (Total)	21/Jun/16	0.43 <MDL	ug/L	N
November 20, 2015	m/p-Xylene	21/Jun/16	0.43 <MDL	ug/L	N
November 20, 2015	o-xylene	21/Jun/16	0.17 <MDL	ug/L	N
November 20, 2015	Zinc	21/Jun/16	5	ug/L	N



SITE: Fanshawe Well #2 - Raw

a) INORGANIC PARAMETERS (including lead, sodium, nitrate, nitrite, and fluoride)

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
November 20, 2015	Antimony	21/Jun/16	0.13	ug/L	N
November 20, 2015	Arsenic	21/Jun/16	1.7	ug/L	N
November 20, 2015	Barium	21/Jun/16	33.7	ug/L	N
November 20, 2015	Boron	21/Jun/16	47	ug/L	N
November 20, 2015	Cadmium	21/Jun/16	0.005	ug/L	N
November 20, 2015	Chromium	21/Jun/16	0.38	ug/L	N
November 20, 2015	Fluoride	21/Jun/16	0.16	mg/L	N
November 20, 2015	Mercury	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Nitrate (as nitrogen)	9/Mar/16	0.006 <MDL	mg/L	N
November 20, 2015	Nitrate (as nitrogen)	9/Mar/16	0.006 <MDL	mg/L	N
November 20, 2015	Nitrate (as nitrogen)	9/Mar/16	0.003 <MDL	mg/L	N
November 20, 2015	Nitrate (as nitrogen)	21/Jun/16	0.025 0.000	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	21/Jun/16	0.025 0.000	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	21/Jun/16	0.003 <MDL	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	7/Sep/16	0.006 <MDL	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	7/Sep/16	0.006 <MDL	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	7/Sep/16	0.003 <MDL	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	21/Dec/16	0.006 <MDL	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	21/Dec/16	0.006 <MDL	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	21/Dec/16	0.003 <MDL	mg/L	N
November 20, 2015	Selenium	21/Jun/16	0.07	ug/L	N
November 20, 2015	Sodium	21/Jun/16	26	mg/L	N
November 20, 2015	Uranium	21/Jun/16	0.531	ug/L	N



b) ORGANIC PARAMETERS (including THM)

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
November 20, 2015	Atrazine	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Atrazine + N-dealkylated metabolites	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	De-ethylated Atrazine	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Azinphos-methyl	21/Jun/16	0.05 <MDL	ug/L	N
November 20, 2015	Benzene	21/Jun/16	0.32 <MDL	ug/L	N
November 20, 2015	Benzo(a)pyrene	21/Jun/16	0.004 <MDL	ug/L	N
November 20, 2015	Bromoxynil	21/Jun/16	0.33 <MDL	ug/L	N
November 20, 2015	Carbaryl	21/Jun/16	0.05 <MDL	ug/L	N
November 20, 2015	Carbofuran	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Carbon tetrachloride	21/Jun/16	0.16 <MDL	ug/L	N
November 20, 2015	Chlorpyrifos	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Diazinon	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Dicamba	21/Jun/16	0.2 <MDL	ug/L	N
November 20, 2015	1,2-Dichlorobenzene	21/Jun/16	0.41 <MDL	ug/L	N
November 20, 2015	1,4-Dichlorobenzene	21/Jun/16	0.36 <MDL	ug/L	N
November 20, 2015	1,2-Dichloroethane	21/Jun/16	0.35 <MDL	ug/L	N
November 20, 2015	Dichloromethane	21/Jun/16	0.35 <MDL	ug/L	N
November 20, 2015	2,4-dichlorophenol	21/Jun/16	0.15 <MDL	ug/L	N
November 20, 2015	2,4-dichlorophenoxyacetic acid (2,4-D)	21/Jun/16	0.19 <MDL	ug/L	N
November 20, 2015	Diclofop-methyl	21/Jun/16	0.4 <MDL	ug/L	N
November 20, 2015	Dimethoate	21/Jun/16	0.03 <MDL	ug/L	N
November 20, 2015	Diquat	21/Jun/16	5 <MDL	ug/L	N
November 20, 2015	Diuron	21/Jun/16	0.03 <MDL	ug/L	N
November 20, 2015	Glyphosate	21/Jun/16	1 <MDL	ug/L	N
November 20, 2015	Malathion	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	MCPA	21/Jun/16	0.00012 <MDL	mg/L	N
November 20, 2015	Metolachlor	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Metribuzin	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Paraquat	21/Jun/16	5 <MDL	ug/L	N
November 20, 2015	Pentachlorophenol	21/Jun/16	0.15 <MDL	ug/L	N
November 20, 2015	Phorate	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Picloram	21/Jun/16	1 <MDL	ug/L	N
November 20, 2015	Polychlorinated Biphenyls (PCBs)	21/Jun/16	0.04 <MDL	ug/L	N
November 20, 2015	Prometryne	21/Jun/16	0.03 <MDL	ug/L	N
November 20, 2015	Simazine	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Terbufos	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	2,3,4,6-tetrachlorophenol	21/Jun/16	0.2 <MDL	ug/L	N
November 20, 2015	Triallate	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Trichloroethylene	21/Jun/16	0.44 <MDL	ug/L	N
November 20, 2015	2,4,6-trichlorophenol	21/Jun/16	0.25 <MDL	ug/L	N
November 20, 2015	Trifluralin	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Vinyl Chloride	21/Jun/16	0.17 <MDL	ug/L	N





c) NON-REGULATED INORGANIC/ORGANIC PARAMETERS

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
November 20, 2015	Alkalinity	21/Jun/16	224	mg/L as CaCO3	N
November 20, 2015	Aluminum	21/Jun/16	0.9	ug/L	N
November 20, 2015	Ammonia+Ammonium (N)	21/Jun/16	0.04 <MDL	mg/L	N
November 20, 2015	Azoxystrobin	21/Jun/16	Notdetected	0/Jan/00	N
November 20, 2015	Calcium	21/Jun/16	94.1	mg/L	N
November 20, 2015	Chloride	21/Jun/16	77	mg/L	N
November 20, 2015	Chlorothalonil	21/Jun/16	Notdetected	ug/L	N
November 20, 2015	Cobalt	21/Jun/16	0.231	ug/L	N
November 20, 2015	Colour	21/Jun/16	3 <MDL	TCU	N
November 20, 2015	Conductivity	21/Jun/16	716	uS/cm	N
November 20, 2015	Copper	21/Jun/16	1.19	ug/L	N
November 20, 2015	Cyanide	21/Jun/16	0.002 <MDL	mg/L	N
November 20, 2015	1,1-Dichloroethylene (vinylidene chloride)	21/Jun/16	0.33 <MDL	ug/L	N
November 20, 2015	Dissolved Organic Carbon	21/Jun/16	1.2	mg/L	N
November 20, 2015	Ethylbenzene	21/Jun/16	0.33 <MDL	ug/L	N
November 20, 2015	Fludioxonil	21/Jun/16	Notdetected	0/Jan/00	N
November 20, 2015	Hardness	21/Jun/16	321	mg/L as CaCO3	N
November 20, 2015	Iron	21/Jun/16	82	ug/L	N
November 20, 2015	Langelier's Index	21/Jun/16	0.42	no unit	N
November 20, 2015	Magnesium	21/Jun/16	20.8	mg/L	N
November 20, 2015	Manganese	21/Jun/16	110	ug/L	N
November 20, 2015	Monochlorobenzene	21/Jun/16	0.3 <MDL	ug/L	N
November 20, 2015	Nickel	21/Jun/16	0.8	ug/L	N
November 20, 2015	Nitrogen-Kjeldahl (N)	21/Jun/16	0.18	mg/L	N
November 20, 2015	Organic Nitrogen	21/Jun/16	0.15	mg/L	N
November 20, 2015	pH	21/Jun/16	7.74	no unit	N
November 20, 2015	Phosphorus	21/Jun/16	0.003 <MDL	mg/L	N
November 20, 2015	Potassium	21/Jun/16	2.58	mg/L	N
November 20, 2015	Silica Dioxide	21/Jun/16	7.82	mg/L	N
November 20, 2015	Silver	21/Jun/16	0.002	ug/L	N
November 20, 2015	Solids (Total Dissolved)	21/Jun/16	411	mg/L	N
November 20, 2015	Sulphate	21/Jun/16	24	mg/L	N
November 20, 2015	Sulphide	21/Jun/16	0.006 <MDL	mg/L	N
November 20, 2015	Surr 1,2-Dichloroethane-d4	21/Jun/16	106	Surr Rec %	N
November 20, 2015	Surr 4-Bromofluorobenzene	21/Jun/16	86	Surr Rec %	N
November 20, 2015	Surr Decachlorobiphenyl	21/Jun/16	70	%	N
November 20, 2015	Tetrachloroethylene (perchloroethylene)	21/Jun/16	0.35 <MDL	ug/L	N
November 20, 2015	Toluene	21/Jun/16	0.36 <MDL	ug/L	N
November 20, 2015	2,4,5-TP (Silvex)	21/Jun/16	0.18 <MDL	ug/L	N
November 20, 2015	Toxaphene	21/Jun/16	5 <MDL	ug/L	N
November 20, 2015	Turbidity	21/Jun/16	1.2	NTU	N
November 20, 2015	Xylene (Total)	21/Jun/16	0.43 <MDL	ug/L	N
November 20, 2015	m/p-Xylene	21/Jun/16	0.43 <MDL	ug/L	N
November 20, 2015	o-xylene	21/Jun/16	0.17 <MDL	ug/L	N
November 20, 2015	Zinc	21/Jun/16	4	ug/L	N



SITE: Fanshawe Well #3 - Raw

a) INORGANIC PARAMETERS (including lead, sodium, nitrate, nitrite, and fluoride)

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
November 20, 2015	Antimony	21/Jun/16	0.14	ug/L	N
November 20, 2015	Arsenic	21/Jun/16	1.4	ug/L	N
November 20, 2015	Barium	21/Jun/16	42.6	ug/L	N
November 20, 2015	Boron	21/Jun/16	42	ug/L	N
November 20, 2015	Cadmium	21/Jun/16	0.006	ug/L	N
November 20, 2015	Chromium	21/Jun/16	0.36	ug/L	N
November 20, 2015	Fluoride	21/Jun/16	0.12	mg/L	N
November 20, 2015	Mercury	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Nitrate (as nitrogen)	9/Mar/16	0.006 <MDL	mg/L	N
November 20, 2015	Nitrate (as nitrogen)	9/Mar/16	0.008 0.000	mg/L	N
November 20, 2015	Nitrate (as nitrogen)	9/Mar/16	0.008 0.000	mg/L	N
November 20, 2015	Nitrate (as nitrogen)	21/Jun/16	0.006 <MDL	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	21/Jun/16	0.006 <MDL	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	21/Jun/16	0.003 <MDL	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	7/Sep/16	0.006 <MDL	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	7/Sep/16	0.006 <MDL	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	7/Sep/16	0.003 <MDL	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	21/Dec/16	0.006 <MDL	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	21/Dec/16	0.006 <MDL	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	21/Dec/16	0.003 <MDL	mg/L	N
November 20, 2015	Selenium	21/Jun/16	0.05	ug/L	N
November 20, 2015	Sodium	21/Jun/16	24.7	mg/L	N
November 20, 2015	Uranium	21/Jun/16	0.610	ug/L	N



b) ORGANIC PARAMETERS (including THM)

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
November 20, 2015	Atrazine	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Atrazine + N-dealkylated metabolites	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	De-ethylated Atrazine	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Azinphos-methyl	21/Jun/16	0.05 <MDL	ug/L	N
November 20, 2015	Benzene	21/Jun/16	0.32 <MDL	ug/L	N
November 20, 2015	Benzo(a)pyrene	21/Jun/16	0.004 <MDL	ug/L	N
November 20, 2015	Bromoxynil	21/Jun/16	0.33 <MDL	ug/L	N
November 20, 2015	Carbaryl	21/Jun/16	0.05 <MDL	ug/L	N
November 20, 2015	Carbofuran	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Carbon tetrachloride	21/Jun/16	0.16 <MDL	ug/L	N
November 20, 2015	Chlorpyrifos	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Diazinon	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Dicamba	21/Jun/16	0.2 <MDL	ug/L	N
November 20, 2015	1,2-Dichlorobenzene	21/Jun/16	0.41 <MDL	ug/L	N
November 20, 2015	1,4-Dichlorobenzene	21/Jun/16	0.36 <MDL	ug/L	N
November 20, 2015	1,2-Dichloroethane	21/Jun/16	0.35 <MDL	ug/L	N
November 20, 2015	Dichloromethane	21/Jun/16	0.35 <MDL	ug/L	N
November 20, 2015	2,4-dichlorophenol	21/Jun/16	0.15 <MDL	ug/L	N
November 20, 2015	2,4-dichlorophenoxyacetic acid (2,4-D)	21/Jun/16	0.19 <MDL	ug/L	N
November 20, 2015	Diclofop-methyl	21/Jun/16	0.4 <MDL	ug/L	N
November 20, 2015	Dimethoate	21/Jun/16	0.03 <MDL	ug/L	N
November 20, 2015	Diquat	21/Jun/16	5 <MDL	ug/L	N
November 20, 2015	Diuron	21/Jun/16	0.03 <MDL	ug/L	N
November 20, 2015	Glyphosate	21/Jun/16	1 <MDL	ug/L	N
November 20, 2015	Malathion	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	MCPA	21/Jun/16	0.00012 <MDL	mg/L	N
November 20, 2015	Metolachlor	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Metribuzin	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Paraquat	21/Jun/16	5 <MDL	ug/L	N
November 20, 2015	Pentachlorophenol	21/Jun/16	0.15 <MDL	ug/L	N
November 20, 2015	Phorate	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Picloram	21/Jun/16	1 <MDL	ug/L	N
November 20, 2015	Polychlorinated Biphenyls (PCBs)	21/Jun/16	0.04 <MDL	ug/L	N
November 20, 2015	Prometryne	21/Jun/16	0.03 <MDL	ug/L	N
November 20, 2015	Simazine	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Terbufos	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	2,3,4,6-tetrachlorophenol	21/Jun/16	0.2 <MDL	ug/L	N
November 20, 2015	Triallate	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Trichloroethylene	21/Jun/16	0.44 <MDL	ug/L	N
November 20, 2015	2,4,6-trichlorophenol	21/Jun/16	0.25 <MDL	ug/L	N
November 20, 2015	Trifluralin	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Vinyl Chloride	21/Jun/16	0.17 <MDL	ug/L	N



c) NON-REGULATED INORGANIC/ORGANIC PARAMETERS

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
November 20, 2015	Alkalinity	21/Jun/16	285	mg/L as CaCO3	N
November 20, 2015	Aluminum	21/Jun/16	0.6	ug/L	N
November 20, 2015	Ammonia+Ammonium (N)	21/Jun/16	0.12	mg/L	N
November 20, 2015	Azoxystrobin	21/Jun/16	Notdetected	0/Jan/00	N
November 20, 2015	Calcium	21/Jun/16	112	mg/L	N
November 20, 2015	Chloride	21/Jun/16	65	mg/L	N
November 20, 2015	Chlorothalonil	21/Jun/16	Notdetected	ug/L	N
November 20, 2015	Cobalt	21/Jun/16	0.494	ug/L	N
November 20, 2015	Colour	21/Jun/16	3 <MDL	TCU	N
November 20, 2015	Conductivity	21/Jun/16	751	uS/cm	N
November 20, 2015	Copper	21/Jun/16	1.81	ug/L	N
November 20, 2015	Cyanide	21/Jun/16	0.002 <MDL	mg/L	N
November 20, 2015	1,1-Dichloroethylene (vinylidene chloride)	21/Jun/16	0.33 <MDL	ug/L	N
November 20, 2015	Dissolved Organic Carbon	21/Jun/16	1.6	mg/L	N
November 20, 2015	Ethylbenzene	21/Jun/16	0.33 <MDL	ug/L	N
November 20, 2015	Fludioxonil	21/Jun/16	Notdetected	0/Jan/00	N
November 20, 2015	Hardness	21/Jun/16	373	mg/L as CaCO3	N
November 20, 2015	Iron	21/Jun/16	130	ug/L	N
November 20, 2015	Langelier's Index	21/Jun/16	0.48	no unit	N
November 20, 2015	Magnesium	21/Jun/16	22.9	mg/L	N
November 20, 2015	Manganese	21/Jun/16	373	ug/L	N
November 20, 2015	Monochlorobenzene	21/Jun/16	0.3 <MDL	ug/L	N
November 20, 2015	Nickel	21/Jun/16	1.9	ug/L	N
November 20, 2015	Nitrogen-Kjeldahl (N)	21/Jun/16	0.28	mg/L	N
November 20, 2015	Organic Nitrogen	21/Jun/16	0.16	mg/L	N
November 20, 2015	pH	21/Jun/16	7.63	no unit	N
November 20, 2015	Phosphorus	21/Jun/16	0.003 <MDL	mg/L	N
November 20, 2015	Potassium	21/Jun/16	2.66	mg/L	N
November 20, 2015	Silica Dioxide	21/Jun/16	10.2	mg/L	N
November 20, 2015	Silver	21/Jun/16	0.002	ug/L	N
November 20, 2015	Solids (Total Dissolved)	21/Jun/16	426	mg/L	N
November 20, 2015	Sulphate	21/Jun/16	19	mg/L	N
November 20, 2015	Sulphide	21/Jun/16	0.006	mg/L	N
November 20, 2015	Surr 1,2-Dichloroethane-d4	21/Jun/16	105	Surr Rec %	N
November 20, 2015	Surr 4-Bromofluorobenzene	21/Jun/16	88	Surr Rec %	N
November 20, 2015	Surr Decachlorobiphenyl	21/Jun/16	63	%	N
November 20, 2015	Tetrachloroethylene (perchloroethylene)	21/Jun/16	0.35 <MDL	ug/L	N
November 20, 2015	Toluene	21/Jun/16	0.36 <MDL	ug/L	N
November 20, 2015	2,4,5-TP (Silvex)	21/Jun/16	0.18 <MDL	ug/L	N
November 20, 2015	Toxaphene	21/Jun/16	5 <MDL	ug/L	N
November 20, 2015	Turbidity	21/Jun/16	1.43	NTU	N
November 20, 2015	Xylene (Total)	21/Jun/16	0.43 <MDL	ug/L	N
November 20, 2015	m/p-Xylene	21/Jun/16	0.43 <MDL	ug/L	N
November 20, 2015	o-xylene	21/Jun/16	0.17 <MDL	ug/L	N
November 20, 2015	Zinc	21/Jun/16	5	ug/L	N



SITE: Fanshawe Well #4 - Raw

a) INORGANIC PARAMETERS (including lead, sodium, nitrate, nitrite, and fluoride)

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
November 20, 2015	Antimony	21/Jun/16	0.12	ug/L	N
November 20, 2015	Arsenic	21/Jun/16	1.1	ug/L	N
November 20, 2015	Barium	21/Jun/16	29.6	ug/L	N
November 20, 2015	Boron	21/Jun/16	23	ug/L	N
November 20, 2015	Cadmium	21/Jun/16	0.005	ug/L	N
November 20, 2015	Chromium	21/Jun/16	0.31	ug/L	N
November 20, 2015	Fluoride	21/Jun/16	0.13	mg/L	N
November 20, 2015	Mercury	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Nitrate (as nitrogen)	9/Mar/16	0.089	mg/L	N
November 20, 2015	Nitrate (as nitrogen)	9/Mar/16	0.103	mg/L	N
November 20, 2015	Nitrate (as nitrogen)	9/Mar/16	0.014	mg/L	N
November 20, 2015	Nitrate (as nitrogen)	21/Jun/16	0.106	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	21/Jun/16	0.113	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	21/Jun/16	0.007	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	7/Sep/16	0.104	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	7/Sep/16	0.118	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	7/Sep/16	0.014	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	21/Dec/16	0.245	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	21/Dec/16	0.265	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	21/Dec/16	0.020	mg/L	N
November 20, 2015	Selenium	21/Jun/16	0.06	ug/L	N
November 20, 2015	Sodium	21/Jun/16	11.9	mg/L	N
November 20, 2015	Uranium	21/Jun/16	0.754	ug/L	N



b) ORGANIC PARAMETERS (including THM)

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
November 20, 2015	Atrazine	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Atrazine + N-dealkylated metabolites	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	De-ethylated Atrazine	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Azinphos-methyl	21/Jun/16	0.05 <MDL	ug/L	N
November 20, 2015	Benzene	21/Jun/16	0.32 <MDL	ug/L	N
November 20, 2015	Benzo(a)pyrene	21/Jun/16	0.004 <MDL	ug/L	N
November 20, 2015	Bromoxynil	21/Jun/16	0.33 <MDL	ug/L	N
November 20, 2015	Carbaryl	21/Jun/16	0.05 <MDL	ug/L	N
November 20, 2015	Carbofuran	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Carbon tetrachloride	21/Jun/16	0.16 <MDL	ug/L	N
November 20, 2015	Chlorpyrifos	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Diazinon	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Dicamba	21/Jun/16	0.2 <MDL	ug/L	N
November 20, 2015	1,2-Dichlorobenzene	21/Jun/16	0.41 <MDL	ug/L	N
November 20, 2015	1,4-Dichlorobenzene	21/Jun/16	0.36 <MDL	ug/L	N
November 20, 2015	1,2-Dichloroethane	21/Jun/16	0.35 <MDL	ug/L	N
November 20, 2015	Dichloromethane	21/Jun/16	0.35 <MDL	ug/L	N
November 20, 2015	2,4-dichlorophenol	21/Jun/16	0.15 <MDL	ug/L	N
November 20, 2015	2,4-dichlorophenoxyacetic acid (2,4-D)	21/Jun/16	0.19 <MDL	ug/L	N
November 20, 2015	Diclofop-methyl	21/Jun/16	0.4 <MDL	ug/L	N
November 20, 2015	Dimethoate	21/Jun/16	0.03 <MDL	ug/L	N
November 20, 2015	Diquat	21/Jun/16	5 <MDL	ug/L	N
November 20, 2015	Diuron	21/Jun/16	0.03 <MDL	ug/L	N
November 20, 2015	Glyphosate	21/Jun/16	1 <MDL	ug/L	N
November 20, 2015	Malathion	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	MCPA	21/Jun/16	.00012 <MDL	mg/L	N
November 20, 2015	Metolachlor	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Metribuzin	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Paraquat	21/Jun/16	5 <MDL	ug/L	N
November 20, 2015	Pentachlorophenol	21/Jun/16	0.15 <MDL	ug/L	N
November 20, 2015	Phorate	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Picloram	21/Jun/16	1 <MDL	ug/L	N
November 20, 2015	Polychlorinated Biphenyls (PCBs)	21/Jun/16	0.04 <MDL	ug/L	N
November 20, 2015	Prometryne	21/Jun/16	0.03 <MDL	ug/L	N
November 20, 2015	Simazine	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Terbufos	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	2,3,4,6-tetrachlorophenol	21/Jun/16	0.2 <MDL	ug/L	N
November 20, 2015	Triallate	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Trichloroethylene	21/Jun/16	0.44 <MDL	ug/L	N
November 20, 2015	2,4,6-trichlorophenol	21/Jun/16	0.25 <MDL	ug/L	N
November 20, 2015	Trifluralin	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Vinyl Chloride	21/Jun/16	0.17 <MDL	ug/L	N



c) NON-REGULATED INORGANIC/ORGANIC PARAMETERS

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
November 20, 2015	Alkalinity	21/Jun/16	288	mg/L as CaCO ₃	N
November 20, 2015	Aluminum	21/Jun/16	1.5	ug/L	N
November 20, 2015	Ammonia+Ammonium (N)	21/Jun/16	0.04 <MDL	mg/L	N
November 20, 2015	Azoxystrobin	21/Jun/16	Notdetected	0/Jan/00	N
November 20, 2015	Calcium	21/Jun/16	96.9	mg/L	N
November 20, 2015	Chloride	21/Jun/16	21	mg/L	N
November 20, 2015	Chlorothalonil	21/Jun/16	Notdetected	ug/L	N
November 20, 2015	Cobalt	21/Jun/16	0.180	ug/L	N
November 20, 2015	Colour	21/Jun/16	3 <MDL	TCU	N
November 20, 2015	Conductivity	21/Jun/16	608	uS/cm	N
November 20, 2015	Copper	21/Jun/16	1.62	ug/L	N
November 20, 2015	Cyanide	21/Jun/16	0.002 <MDL	mg/L	N
November 20, 2015	1,1-Dichloroethylene (vinylidene chloride)	21/Jun/16	0.33 <MDL	ug/L	N
November 20, 2015	Dissolved Organic Carbon	21/Jun/16	1.5	mg/L	N
November 20, 2015	Ethylbenzene	21/Jun/16	0.33	ug/L	N
November 20, 2015	Fludioxonil	21/Jun/16	Notdetected	0/Jan/00	N
November 20, 2015	Hardness	21/Jun/16	328	mg/L as CaCO ₃	N
November 20, 2015	Iron	21/Jun/16	186	ug/L	N
November 20, 2015	Langelier's Index	21/Jun/16	0.51	no unit	N
November 20, 2015	Magnesium	21/Jun/16	20.9	mg/L	N
November 20, 2015	Manganese	21/Jun/16	177	ug/L	N
November 20, 2015	Monochlorobenzene	21/Jun/16	0.3 <MDL	ug/L	N
November 20, 2015	Nickel	21/Jun/16	1	ug/L	N
November 20, 2015	Nitrogen-Kjeldahl (N)	21/Jun/16	0.26	mg/L	N
November 20, 2015	Organic Nitrogen	21/Jun/16	0.26	mg/L	N
November 20, 2015	pH	21/Jun/16	7.71	no unit	N
November 20, 2015	Phosphorus	21/Jun/16	0.004	mg/L	N
November 20, 2015	Potassium	21/Jun/16	2.01	mg/L	N
November 20, 2015	Silica Dioxide	21/Jun/16	8.87	mg/L	N
November 20, 2015	Silver	21/Jun/16	0.002	ug/L	N
November 20, 2015	Solids (Total Dissolved)	21/Jun/16	349	mg/L	N
November 20, 2015	Sulphate	21/Jun/16	13	mg/L	N
November 20, 2015	Sulphide	21/Jun/16	0.006 <MDL	mg/L	N
November 20, 2015	Surr 1,2-Dichloroethane-d4	21/Jun/16	105	Surr Rec %	N
November 20, 2015	Surr 4-Bromofluorobenzene	21/Jun/16	88	Surr Rec %	N
November 20, 2015	Surr Decachlorobiphenyl	21/Jun/16	67	%	N
November 20, 2015	Tetrachloroethylene (perchloroethylene)	21/Jun/16	0.35 <MDL	ug/L	N
November 20, 2015	Toluene	21/Jun/16	0.36 <MDL	ug/L	N
November 20, 2015	2,4,5-TP (Silvex)	21/Jun/16	0.18 <MDL	ug/L	N
November 20, 2015	Toxaphene	21/Jun/16	5 <MDL	ug/L	N
November 20, 2015	Turbidity	21/Jun/16	1.77	NTU	N
November 20, 2015	Xylene (Total)	21/Jun/16	0.43 <MDL	ug/L	N
November 20, 2015	m/p-Xylene	21/Jun/16	0.43 <MDL	ug/L	N
November 20, 2015	o-xylene	21/Jun/16	0.17 <MDL	ug/L	N
November 20, 2015	Zinc	21/Jun/16	5	ug/L	N



SITE: Fanshawe Well #5 - Raw

a) INORGANIC PARAMETERS (including lead, sodium, nitrate, nitrite, and fluoride)

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
November 20, 2015	Antimony	21/Jun/16	0.09	ug/L	N
November 20, 2015	Arsenic	21/Jun/16	0.9	ug/L	N
November 20, 2015	Barium	21/Jun/16	46.8	ug/L	N
November 20, 2015	Boron	21/Jun/16	89	ug/L	N
November 20, 2015	Cadmium	21/Jun/16	0.012	ug/L	N
November 20, 2015	Chromium	21/Jun/16	0.28	ug/L	N
November 20, 2015	Fluoride	21/Jun/16	0.09	mg/L	N
November 20, 2015	Mercury	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Nitrate (as nitrogen)	9/Mar/16	1.79	mg/L	N
November 20, 2015	Nitrate (as nitrogen)	9/Mar/16	1.79	mg/L	N
November 20, 2015	Nitrate (as nitrogen)	9/Mar/16	0.003 <MDL	mg/L	N
November 20, 2015	Nitrate (as nitrogen)	21/Jun/16	1.61	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	21/Jun/16	1.61	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	21/Jun/16	0.003 <MDL	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	7/Sep/16	2.12	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	7/Sep/16	2.12	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	7/Sep/16	0.003 <MDL	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	21/Dec/16	1.83	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	21/Dec/16	1.83	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	21/Dec/16	0.003 <MDL	mg/L	N
November 20, 2015	Selenium	21/Jun/16	0.13	ug/L	N
November 20, 2015	Sodium	21/Jun/16	81.8	mg/L	N
November 20, 2015	Uranium	21/Jun/16	0.533	ug/L	N



b) ORGANIC PARAMETERS (including THM)

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
November 20, 2015	Atrazine	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Atrazine + N-dealkylated metabolites	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	De-ethylated Atrazine	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Azinphos-methyl	21/Jun/16	0.05 <MDL	ug/L	N
November 20, 2015	Benzene	21/Jun/16	0.32 <MDL	ug/L	N
November 20, 2015	Benzo(a)pyrene	21/Jun/16	0.004 <MDL	ug/L	N
November 20, 2015	Bromoxynil	21/Jun/16	0.33 <MDL	ug/L	N
November 20, 2015	Carbaryl	21/Jun/16	0.05 <MDL	ug/L	N
November 20, 2015	Carbofuran	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Carbon tetrachloride	21/Jun/16	0.16 <MDL	ug/L	N
November 20, 2015	Chlorpyrifos	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Diazinon	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Dicamba	21/Jun/16	0.2 <MDL	ug/L	N
November 20, 2015	1,2-Dichlorobenzene	21/Jun/16	0.41 <MDL	ug/L	N
November 20, 2015	1,4-Dichlorobenzene	21/Jun/16	0.36 <MDL	ug/L	N
November 20, 2015	1,2-Dichloroethane	21/Jun/16	0.35 <MDL	ug/L	N
November 20, 2015	Dichloromethane	21/Jun/16	0.35 <MDL	ug/L	N
November 20, 2015	2,4-dichlorophenol	21/Jun/16	0.15 <MDL	ug/L	N
November 20, 2015	2,4-dichlorophenoxyacetic acid (2,4-D)	21/Jun/16	0.19 <MDL	ug/L	N
November 20, 2015	Diclofop-methyl	21/Jun/16	0.4 <MDL	ug/L	N
November 20, 2015	Dimethoate	21/Jun/16	0.03 <MDL	ug/L	N
November 20, 2015	Diquat	21/Jun/16	5 <MDL	ug/L	N
November 20, 2015	Diuron	21/Jun/16	0.03 <MDL	ug/L	N
November 20, 2015	Glyphosate	21/Jun/16	1 <MDL	ug/L	N
November 20, 2015	Malathion	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	MCPA	21/Jun/16	.00012 <MDL	mg/L	N
November 20, 2015	Metolachlor	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Metribuzin	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Paraquat	21/Jun/16	5 <MDL	ug/L	N
November 20, 2015	Pentachlorophenol	21/Jun/16	0.15 <MDL	ug/L	N
November 20, 2015	Phorate	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Picloram	21/Jun/16	1 <MDL	ug/L	N
November 20, 2015	Polychlorinated Biphenyls (PCBs)	21/Jun/16	0.04 <MDL	ug/L	N
November 20, 2015	Prometryne	21/Jun/16	0.03 <MDL	ug/L	N
November 20, 2015	Simazine	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Terbufos	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	2,3,4,6-tetrachlorophenol	21/Jun/16	0.2 <MDL	ug/L	N
November 20, 2015	Triallate	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Trichloroethylene	21/Jun/16	0.44 <MDL	ug/L	N
November 20, 2015	2,4,6-trichlorophenol	21/Jun/16	0.25 <MDL	ug/L	N
November 20, 2015	Trifluralin	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Vinyl Chloride	21/Jun/16	0.17 <MDL	ug/L	N



c) NON-REGULATED INORGANIC/ORGANIC PARAMETERS

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
November 20, 2015	Alkalinity	21/Jun/16	328	mg/L as CaCO ₃	N
November 20, 2015	Aluminum	21/Jun/16	0.8	ug/L	N
November 20, 2015	Ammonia+Ammonium (N)	21/Jun/16	0.04 <MDL	mg/L	N
November 20, 2015	Calcium	21/Jun/16	126	mg/L	N
November 20, 2015	Chloride	21/Jun/16	120	mg/L	N
November 20, 2015	Cobalt	21/Jun/16	0.041	ug/L	N
November 20, 2015	Colour	21/Jun/16	3 <MDL	TCU	N
November 20, 2015	Conductivity	21/Jun/16	1050	uS/cm	N
November 20, 2015	Copper	21/Jun/16	3.69	ug/L	N
November 20, 2015	Cyanide	21/Jun/16	0.002 <MDL	mg/L	N
November 20, 2015	1,1-Dichloroethylene (vinylidene chloride)	21/Jun/16	0.33 <MDL	ug/L	N
November 20, 2015	Dissolved Organic Carbon	21/Jun/16	1.4	mg/L	N
November 20, 2015	Ethylbenzene	21/Jun/16	0.33 <MDL	ug/L	N
November 20, 2015	Hardness	21/Jun/16	409	mg/L as CaCO ₃	N
November 20, 2015	Iron	21/Jun/16	24	ug/L	N
November 20, 2015	Langelier's Index	21/Jun/16	0.85	no unit	N
November 20, 2015	Magnesium	21/Jun/16	22.9	mg/L	N
November 20, 2015	Manganese	21/Jun/16	0.65	ug/L	N
November 20, 2015	Monochlorobenzene	21/Jun/16	0.3 <MDL	ug/L	N
November 20, 2015	Nickel	21/Jun/16	0.4	ug/L	N
November 20, 2015	Nitrogen-Kjeldahl (N)	21/Jun/16	0.05	mg/L	N
November 20, 2015	Organic Nitrogen	21/Jun/16	0.05 <MDL	mg/L	N
November 20, 2015	pH	21/Jun/16	7.9	no unit	N
November 20, 2015	Phosphorus	21/Jun/16	0.003	mg/L	N
November 20, 2015	Potassium	21/Jun/16	2.17	mg/L	N
November 20, 2015	Silica Dioxide	21/Jun/16	9.95	mg/L	N
November 20, 2015	Silver	21/Jun/16	0.002	ug/L	N
November 20, 2015	Solids (Total Dissolved)	21/Jun/16	603	mg/L	N
November 20, 2015	Sulphate	21/Jun/16	49	mg/L	N
November 20, 2015	Sulphide	21/Jun/16	0.009	mg/L	N
November 20, 2015	Surr 1,2-Dichloroethane-d4	21/Jun/16	105	Surr Rec %	N
November 20, 2015	Surr 4-Bromofluorobenzene	21/Jun/16	89	Surr Rec %	N
November 20, 2015	Surr Decachlorobiphenyl	21/Jun/16	104	%	N
November 20, 2015	Tetrachloroethylene (perchloroethylene)	21/Jun/16	0.35 <MDL	ug/L	N
November 20, 2015	Toluene	21/Jun/16	0.36 <MDL	ug/L	N
November 20, 2015	2,4,5-TP (Silvex)	21/Jun/16	0.18 <MDL	ug/L	N
November 20, 2015	Toxaphene	21/Jun/16	5 <MDL	ug/L	N
November 20, 2015	Turbidity	21/Jun/16	0.36	NTU	N
November 20, 2015	Xylene (Total)	21/Jun/16	0.43 <MDL	ug/L	N
November 20, 2015	m/p-Xylene	21/Jun/16	0.43 <MDL	ug/L	N
November 20, 2015	o-xylene	21/Jun/16	0.17 <MDL	ug/L	N
November 20, 2015	Zinc	21/Jun/16	6	ug/L	N



SITE: Fanshawe Well #6 - Raw

a) INORGANIC PARAMETERS (including lead, sodium, nitrate, nitrite, and fluoride)

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
November 20, 2015	Antimony	21/Jun/16	0.14	ug/L	N
November 20, 2015	Arsenic	21/Jun/16	0.9	ug/L	N
November 20, 2015	Barium	21/Jun/16	28.2	ug/L	N
November 20, 2015	Boron	21/Jun/16	22	ug/L	N
November 20, 2015	Cadmium	21/Jun/16	0.005	ug/L	N
November 20, 2015	Chromium	21/Jun/16	0.3	ug/L	N
November 20, 2015	Fluoride	21/Jun/16	0.12	mg/L	N
November 20, 2015	Mercury	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Nitrate (as nitrogen)	9/Mar/16	0.271	mg/L	N
November 20, 2015	Nitrate (as nitrogen)	9/Mar/16	0.279	mg/L	N
November 20, 2015	Nitrate (as nitrogen)	9/Mar/16	0.008	mg/L	N
November 20, 2015	Nitrate (as nitrogen)	21/Jun/16	0.415	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	21/Jun/16	0.433	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	21/Jun/16	0.018	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	7/Sep/16	0.055	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	7/Sep/16	0.065	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	7/Sep/16	0.01	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	21/Dec/16	0.04	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	21/Dec/16	0.04	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	21/Dec/16	0.003 <MDL	mg/L	N
November 20, 2015	Selenium	21/Jun/16	0.17	ug/L	N
November 20, 2015	Sodium	21/Jun/16	11.1	mg/L	N
November 20, 2015	Uranium	21/Jun/16	0.419	ug/L	N



b) ORGANIC PARAMETERS (including THM)

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
November 20, 2015	Atrazine	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Atrazine + N-dealkylated metabolites	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	De-ethylated Atrazine	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Azinphos-methyl	21/Jun/16	0.05 <MDL	ug/L	N
November 20, 2015	Benzene	21/Jun/16	0.32 <MDL	ug/L	N
November 20, 2015	Benzo(a)pyrene	21/Jun/16	0.004 <MDL	ug/L	N
November 20, 2015	Bromoxynil	21/Jun/16	0.33 <MDL	ug/L	N
November 20, 2015	Carbaryl	21/Jun/16	0.05 <MDL	ug/L	N
November 20, 2015	Carbofuran	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Carbon tetrachloride	21/Jun/16	0.16 <MDL	ug/L	N
November 20, 2015	Chlorpyrifos	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Diazinon	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Dicamba	21/Jun/16	0.2 <MDL	ug/L	N
November 20, 2015	1,2-Dichlorobenzene	21/Jun/16	0.41 <MDL	ug/L	N
November 20, 2015	1,4-Dichlorobenzene	21/Jun/16	0.36 <MDL	ug/L	N
November 20, 2015	1,2-Dichloroethane	21/Jun/16	0.35 <MDL	ug/L	N
November 20, 2015	Dichloromethane	21/Jun/16	0.35 <MDL	ug/L	N
November 20, 2015	2,4-dichlorophenol	21/Jun/16	0.15 <MDL	ug/L	N
November 20, 2015	2,4-dichlorophenoxyacetic acid (2,4-D)	21/Jun/16	0.19 <MDL	ug/L	N
November 20, 2015	Diclofop-methyl	21/Jun/16	0.4 <MDL	ug/L	N
November 20, 2015	Dimethoate	21/Jun/16	0.03 <MDL	ug/L	N
November 20, 2015	Diquat	21/Jun/16	5 <MDL	ug/L	N
November 20, 2015	Diuron	21/Jun/16	0.03 <MDL	ug/L	N
November 20, 2015	Glyphosate	21/Jun/16	1 <MDL	ug/L	N
November 20, 2015	Malathion	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	MCPA	21/Jun/16	0.00012 <MDL	mg/L	N
November 20, 2015	Metolachlor	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Metribuzin	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Paraquat	21/Jun/16	5 <MDL	ug/L	N
November 20, 2015	Pentachlorophenol	21/Jun/16	0.15 <MDL	ug/L	N
November 20, 2015	Phorate	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Picloram	21/Jun/16	1 <MDL	ug/L	N
November 20, 2015	Polychlorinated Biphenyls (PCBs)	21/Jun/16	0.04 <MDL	ug/L	N
November 20, 2015	Prometryne	21/Jun/16	0.03 <MDL	ug/L	N
November 20, 2015	Simazine	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Terbufos	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	2,3,4,6-tetrachlorophenol	21/Jun/16	0.2 <MDL	ug/L	N
November 20, 2015	Triallate	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Trichloroethylene	21/Jun/16	0.44 <MDL	ug/L	N
November 20, 2015	2,4,6-trichlorophenol	21/Jun/16	0.25 <MDL	ug/L	N
November 20, 2015	Trifluralin	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Vinyl Chloride	21/Jun/16	0.17 <MDL	ug/L	N



c) NON-REGULATED INORGANIC/ORGANIC PARAMETERS

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
November 20, 2015	Alkalinity	21/Jun/16	253	mg/L as CaCO3	N
November 20, 2015	Aluminum	21/Jun/16	1	ug/L	N
November 20, 2015	Ammonia+Ammonium (N)	21/Jun/16	0.04	mg/L	N
November 20, 2015	Azoxystrobin	21/Jun/16	Notdetected	0/Jan/00	N
November 20, 2015	Calcium	21/Jun/16	88.8	mg/L	N
November 20, 2015	Chloride	21/Jun/16	21	mg/L	N
November 20, 2015	Chlorothalonil	21/Jun/16	Notdetected	ug/L	N
November 20, 2015	Cobalt	21/Jun/16	0.686	ug/L	N
November 20, 2015	Colour	21/Jun/16	3 <MDL	TCU	N
November 20, 2015	Conductivity	21/Jun/16	564	uS/cm	N
November 20, 2015	Copper	21/Jun/16	9.19	ug/L	N
November 20, 2015	Cyanide	21/Jun/16	0.002 <MDL	mg/L	N
November 20, 2015	1,1-Dichloroethylene (vinylidene chloride)	21/Jun/16	0.33 <MDL	ug/L	N
November 20, 2015	Dissolved Organic Carbon	21/Jun/16	1.7	mg/L	N
November 20, 2015	Ethylbenzene	21/Jun/16	0.33 <MDL	ug/L	N
November 20, 2015	Fludioxonil	21/Jun/16	Notdetected	0/Jan/00	N
November 20, 2015	Hardness	21/Jun/16	294	mg/L as CaCO3	N
November 20, 2015	Iron	21/Jun/16	20	ug/L	N
November 20, 2015	Langelier's Index	21/Jun/16	0.92	no unit	N
November 20, 2015	Magnesium	21/Jun/16	17.4	mg/L	N
November 20, 2015	Manganese	21/Jun/16	261	ug/L	N
November 20, 2015	Monochlorobenzene	21/Jun/16	0.3 <MDL	ug/L	N
November 20, 2015	Nickel	21/Jun/16	1.1	ug/L	N
November 20, 2015	Nitrogen-Kjeldahl (N)	21/Jun/16	0.31	mg/L	N
November 20, 2015	Organic Nitrogen	21/Jun/16	0.31	mg/L	N
November 20, 2015	pH	21/Jun/16	8.21	no unit	N
November 20, 2015	Phosphorus	21/Jun/16	0.003 <MDL	mg/L	N
November 20, 2015	Potassium	21/Jun/16	2.61	mg/L	N
November 20, 2015	Silica Dioxide	21/Jun/16	8.89	mg/L	N
November 20, 2015	Silver	21/Jun/16	0.002	ug/L	N
November 20, 2015	Solids (Total Dissolved)	21/Jun/16	320	mg/L	N
November 20, 2015	Sulphate	21/Jun/16	16	mg/L	N
November 20, 2015	Sulphide	21/Jun/16	0.006 <MDL	mg/L	N
November 20, 2015	Surr 1,2-Dichloroethane-d4	21/Jun/16	106	Surr Rec %	N
November 20, 2015	Surr 4-Bromofluorobenzene	21/Jun/16	87	Surr Rec %	N
November 20, 2015	Surr Decachlorobiphenyl	21/Jun/16	69	%	N
November 20, 2015	Tetrachloroethylene (perchloroethylene)	21/Jun/16	0.35 <MDL	ug/L	N
November 20, 2015	Toluene	21/Jun/16	0.36 <MDL	ug/L	N
November 20, 2015	2,4,5-TP (Silvex)	21/Jun/16	0.18 <MDL	ug/L	N
November 20, 2015	Toxaphene	21/Jun/16	5 <MDL	ug/L	N
November 20, 2015	Turbidity	21/Jun/16	0.31	NTU	N
November 20, 2015	Xylene (Total)	21/Jun/16	0.43 <MDL	ug/L	N
November 20, 2015	m/p-Xylene	21/Jun/16	0.43 <MDL	ug/L	N
November 20, 2015	o-xylene	21/Jun/16	0.17 <MDL	ug/L	N
November 20, 2015	Zinc	21/Jun/16	2	ug/L	N



SITE: Hyde Park Well - Raw

a) INORGANIC PARAMETERS (including lead, sodium, nitrate, nitrite, and fluoride)

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
November 20, 2015	Antimony	21/Jun/16	0.67	ug/L	N
November 20, 2015	Arsenic	21/Jun/16	0.9	ug/L	N
November 20, 2015	Barium	21/Jun/16	78.9	ug/L	N
November 20, 2015	Boron	21/Jun/16	41	ug/L	N
November 20, 2015	Cadmium	21/Jun/16	0.006	ug/L	N
November 20, 2015	Chromium	21/Jun/16	0.15	ug/L	N
November 20, 2015	Fluoride	21/Jun/16	0.23	mg/L	N
November 20, 2015	Mercury	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Nitrate (as nitrogen)	9/Mar/16	2.48	mg/L	N
November 20, 2015	Nitrate (as nitrogen)	21/Jun/16	2.40	mg/L	N
November 20, 2015	Nitrate (as nitrogen)	7/Sep/16	2.56	mg/L	N
November 20, 2015	Nitrate (as nitrogen)	21/Dec/16	2.96	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	9/Mar/16	2.49	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	21/Jun/16	2.40	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	7/Sep/16	2.56	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	21/Dec/16	2.96	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	9/Mar/16	0.01	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	21/Jun/16	0.003 <MDL	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	7/Sep/16	0.003 <MDL	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	21/Dec/16	0.003 <MDL	mg/L	N
November 20, 2015	Selenium	21/Jun/16	0.79	ug/L	N
November 20, 2015	Sodium	21/Jun/16	54.3	mg/L	N
November 20, 2015	Uranium	21/Jun/16	0.586	ug/L	N



b) ORGANIC PARAMETERS (including THM)

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
November 20, 2015	Atrazine	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Atrazine + N-dealkylated metabolites	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	De-ethylated Atrazine	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Azinphos-methyl	21/Jun/16	0.05 <MDL	ug/L	N
November 20, 2015	Benzene	21/Jun/16	0.32 <MDL	ug/L	N
November 20, 2015	Benzo(a)pyrene	21/Jun/16	0.004 <MDL	ug/L	N
November 20, 2015	Bromoxynil	21/Jun/16	0.33 <MDL	ug/L	N
November 20, 2015	Carbaryl	21/Jun/16	0.05 <MDL	ug/L	N
November 20, 2015	Carbofuran	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Carbon tetrachloride	21/Jun/16	0.16 <MDL	ug/L	N
November 20, 2015	Chlorpyrifos	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Diazinon	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Dicamba	21/Jun/16	0.2 <MDL	ug/L	N
November 20, 2015	1,2-Dichlorobenzene	21/Jun/16	0.41 <MDL	ug/L	N
November 20, 2015	1,4-Dichlorobenzene	21/Jun/16	0.36 <MDL	ug/L	N
November 20, 2015	1,2-Dichloroethane	21/Jun/16	0.35 <MDL	ug/L	N
November 20, 2015	Dichloromethane	21/Jun/16	0.35 <MDL	ug/L	N
November 20, 2015	2,4-dichlorophenol	21/Jun/16	0.15 <MDL	ug/L	N
November 20, 2015	2,4-dichlorophenoxyacetic acid (2,4-D)	21/Jun/16	0.19 <MDL	ug/L	N
November 20, 2015	Diclofop-methyl	21/Jun/16	0.4 <MDL	ug/L	N
November 20, 2015	Dimethoate	21/Jun/16	0.03 <MDL	ug/L	N
November 20, 2015	Diquat	21/Jun/16	5 <MDL	ug/L	N
November 20, 2015	Diuron	21/Jun/16	0.03 <MDL	ug/L	N
November 20, 2015	Glyphosate	21/Jun/16	1 <MDL	ug/L	N
November 20, 2015	Malathion	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	MCPA	21/Jun/16	0.00012 <MDL	mg/L	N
November 20, 2015	Metolachlor	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Metribuzin	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Paraquat	21/Jun/16	5 <MDL	ug/L	N
November 20, 2015	Pentachlorophenol	21/Jun/16	0.15 <MDL	ug/L	N
November 20, 2015	Phorate	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Picloram	21/Jun/16	1 <MDL	ug/L	N
November 20, 2015	Polychlorinated Biphenyls (PCBs)	21/Jun/16	0.04 <MDL	ug/L	N
November 20, 2015	Prometryne	21/Jun/16	0.03 <MDL	ug/L	N
November 20, 2015	Simazine	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Terbufos	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	2,3,4,6-tetrachlorophenol	21/Jun/16	0.2 <MDL	ug/L	N
November 20, 2015	Triallate	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Trichloroethylene	21/Jun/16	0.44 <MDL	ug/L	N
November 20, 2015	2,4,6-trichlorophenol	21/Jun/16	0.25 <MDL	ug/L	N
November 20, 2015	Trifluralin	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Vinyl Chloride	21/Jun/16	0.17 <MDL	ug/L	N



c) NON-REGULATED INORGANIC/ORGANIC PARAMETERS

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
November 20, 2015	Alkalinity	21/Jun/16	279	mg/L as CaCO ₃	N
November 20, 2015	Aluminum	21/Jun/16	0.3 <MDL	ug/L	N
November 20, 2015	Ammonia+Ammonium (N)	21/Jun/16	0.09	mg/L	N
November 20, 2015	Calcium	21/Jun/16	106	mg/L	N
November 20, 2015	Chloride	21/Jun/16	91	mg/L	N
November 20, 2015	Cobalt	21/Jun/16	0.016	ug/L	N
November 20, 2015	Colour	21/Jun/16	3 <MDL	TCU	N
November 20, 2015	Conductivity	21/Jun/16	870	uS/cm	N
November 20, 2015	Copper	21/Jun/16	0.66	ug/L	N
November 20, 2015	Cyanide	21/Jun/16	0.002 <MDL	mg/L	N
November 20, 2015	1,1-Dichloroethylene (vinylidene chloride)	21/Jun/16	0.33 <MDL	ug/L	N
November 20, 2015	Dissolved Organic Carbon	21/Jun/16	0.2 <MDL	mg/L	N
November 20, 2015	Ethylbenzene	21/Jun/16	0.33 <MDL	ug/L	N
November 20, 2015	Hardness	21/Jun/16	376	mg/L as CaCO ₃	N
November 20, 2015	Iron	21/Jun/16	9	ug/L	N
November 20, 2015	Langelier's Index	21/Jun/16	0.41	no unit	N
November 20, 2015	Magnesium	21/Jun/16	26.8	mg/L	N
November 20, 2015	Manganese	21/Jun/16	0.37	ug/L	N
November 20, 2015	Monochlorobenzene	21/Jun/16	0.3 <MDL	ug/L	N
November 20, 2015	Nickel	21/Jun/16	0.5	ug/L	N
November 20, 2015	Nitrogen-Kjeldahl (N)	21/Jun/16	0.05 <MDL	mg/L	N
November 20, 2015	Organic Nitrogen	21/Jun/16	0.05 <MDL	mg/L	N
November 20, 2015	pH	21/Jun/16	7.6	no unit	N
November 20, 2015	Phosphorus	21/Jun/16	0.004	mg/L	N
November 20, 2015	Potassium	21/Jun/16	1.92	mg/L	N
November 20, 2015	Silica Dioxide	21/Jun/16	15.2	mg/L	N
November 20, 2015	Silver	21/Jun/16	0.002 <MDL	ug/L	N
November 20, 2015	Solids (Total Dissolved)	21/Jun/16	526	mg/L	N
November 20, 2015	Sulphate	21/Jun/16	43	mg/L	N
November 20, 2015	Sulphide	21/Jun/16	0.006 <MDL	mg/L	N
November 20, 2015	Surr 1,2-Dichloroethane-d4	21/Jun/16	107	Surr Rec %	N
November 20, 2015	Surr 4-Bromofluorobenzene	21/Jun/16	86	Surr Rec %	N
November 20, 2015	Surr Decachlorobiphenyl	21/Jun/16	69	%	N
November 20, 2015	Tetrachloroethylene (perchloroethylene)	21/Jun/16	0.35 <MDL	ug/L	N
November 20, 2015	Toluene	21/Jun/16	0.36 <MDL	ug/L	N
November 20, 2015	2,4,5-TP (Silvex)	21/Jun/16	0.18 <MDL	ug/L	N
November 20, 2015	Toxaphene	21/Jun/16	5 <MDL	ug/L	N
November 20, 2015	Turbidity	21/Jun/16	0.52	NTU	N
November 20, 2015	Xylene (Total)	21/Jun/16	0.43 <MDL	ug/L	N
November 20, 2015	m/p-Xylene	21/Jun/16	0.43 <MDL	ug/L	N
November 20, 2015	o-xylene	21/Jun/16	0.17 <MDL	ug/L	N
November 20, 2015	Zinc	21/Jun/16	2	ug/L	N



Summary of Inorganic parameters tested during this reporting period or the most recent sample results.

As outlined below, sampling was carried out for inorganic and organic parameters at the following sites: Arva Pumping Station, Highbury Ave. at Dingman Dr.

SITE: Arva Pumping Station - Treated Distribution

a) INORGANIC PARAMETERS (including lead, sodium, nitrate, nitrite, and fluoride)

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
November 20, 2015	Antimony	21/Jun/16	0.29	ug/L	N
November 20, 2015	Arsenic	21/Jun/16	1	ug/L	N
November 20, 2015	Barium	21/Jun/16	13.8	ug/L	N
November 20, 2015	Boron	21/Jun/16	16	ug/L	N
November 20, 2015	Cadmium	21/Jun/16	0.003 <MDL	ug/L	N
November 20, 2015	Chromium	21/Jun/16	0.53	ug/L	N
November 20, 2015	Fluoride	6/Jan/16	0.63	mg/L	N
November 20, 2015	Fluoride	13/Jan/16	0.59	mg/L	N
November 20, 2015	Fluoride	20/Jan/16	0.61	mg/L	N
November 20, 2015	Fluoride	27/Jan/16	0.63	mg/L	N
November 20, 2015	Fluoride	3/Feb/16	0.63	mg/L	N
November 20, 2015	Fluoride	10/Feb/16	0.6	mg/L	N
November 20, 2015	Fluoride	17/Feb/16	0.67	mg/L	N
November 20, 2015	Fluoride	24/Feb/16	0.61	mg/L	N
November 20, 2015	Fluoride	2/Mar/16	0.63	mg/L	N
November 20, 2015	Fluoride	9/Mar/16	0.62	mg/L	N
November 20, 2015	Fluoride	16/Mar/16	0.81	mg/L	N
November 20, 2015	Fluoride	23/Mar/16	0.61	mg/L	N
November 20, 2015	Fluoride	30/Mar/16	0.63	mg/L	N
November 20, 2015	Fluoride	4/May/16	0.54	mg/L	N
November 20, 2015	Fluoride	11/May/16	0.7	mg/L	N
November 20, 2015	Fluoride	18/May/16	0.61	mg/L	N
November 20, 2015	Fluoride	25/May/16	0.64	mg/L	N
November 20, 2015	Fluoride	1/Jun/16	0.61	mg/L	N
November 20, 2015	Fluoride	8/Jun/16	0.58	mg/L	N
November 20, 2015	Fluoride	15/Jun/16	0.62	mg/L	N
November 20, 2015	Fluoride	22/Jun/16	0.68	mg/L	N
November 20, 2015	Fluoride	29/Jun/16	0.72	mg/L	N
November 20, 2015	Fluoride	6/Jul/16	0.69	mg/L	N
November 20, 2015	Fluoride	13/Jul/16	0.67	mg/L	N
November 20, 2015	Fluoride	20/Jul/16	0.56	mg/L	N
November 20, 2015	Fluoride	27/Jul/16	0.67	mg/L	N
November 20, 2015	Fluoride	3/Aug/16	0.55	mg/L	N
November 20, 2015	Fluoride	10/Aug/16	0.62	mg/L	N
November 20, 2015	Fluoride	17/Aug/16	0.54	mg/L	N
November 20, 2015	Fluoride	24/Aug/16	0.65	mg/L	N



November 20, 2015	Fluoride	31/Aug/16	0.58	mg/L	N
November 20, 2015	Fluoride	6/Sep/16	0.56	mg/L	N
November 20, 2015	Fluoride	14/Sep/16	0.65	mg/L	N
November 20, 2015	Fluoride	21/Sep/16	0.56	mg/L	N
November 20, 2015	Fluoride	28/Sep/16	0.74	mg/L	N
November 20, 2015	Fluoride	5/Oct/16	0.63	mg/L	N
November 20, 2015	Fluoride	12/Oct/16	0.56	mg/L	N
November 20, 2015	Fluoride	19/Oct/16	0.53	mg/L	N
November 20, 2015	Fluoride	26/Oct/16	0.54	mg/L	N
November 20, 2015	Fluoride	2/Nov/16	0.58	mg/L	N
November 20, 2015	Fluoride	9/Nov/16	0.63	mg/L	N
November 20, 2015	Fluoride	16/Nov/16	0.59	mg/L	N
November 20, 2015	Fluoride	23/Nov/16	0.57	mg/L	N
November 20, 2015	Fluoride	30/Nov/16	0.6	mg/L	N
November 20, 2015	Fluoride	14/Dec/16	0.51	mg/L	N
November 20, 2015	Fluoride	21/Dec/16	0.57	mg/L	N
November 20, 2015	Fluoride	28/Dec/16	0.66	mg/L	N
November 20, 2015	Mercury	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Nitrate (as nitrogen)	9/Mar/16	1.02	mg/L	N
November 20, 2015	Nitrate (as nitrogen)	21/Jun/16	0.304	mg/L	N
November 20, 2015	Nitrate (as nitrogen)	7/Sep/16	0.251	mg/L	N
November 20, 2015	Nitrate (as nitrogen)	21/Dec/16	0.291	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	9/Mar/16	1.02	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	21/Jun/16	0.304	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	7/Sep/16	0.251	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	21/Dec/16	0.291	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	9/Mar/16	0.003 <MDL	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	21/Jun/16	0.003 <MDL	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	7/Sep/16	0.003 <MDL	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	21/Dec/16	0.003 <MDL	mg/L	N
November 20, 2015	Selenium	21/Jun/16	0.17	ug/L	N
November 20, 2015	Sodium	21/Jun/16	10.8	mg/L	N
November 20, 2015	Uranium	21/Jun/16	0.036	ug/L	N



b) ORGANIC PARAMETERS (including THM)

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
November 20, 2015	Atrazine	21/Jun/16	0.01	ug/L	N
November 20, 2015	Atrazine + N-dealkylated metabolites	21/Jun/16	0.01	ug/L	N
November 20, 2015	De-ethylated Atrazine	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Azinphos-methyl	21/Jun/16	0.05 <MDL	ug/L	N
November 20, 2015	Benzene	21/Jun/16	0.32 <MDL	ug/L	N
November 20, 2015	Benzo(a)pyrene	21/Jun/16	0.004 <MDL	ug/L	N
November 20, 2015	Bromoxynil	21/Jun/16	0.33 <MDL	ug/L	N
November 20, 2015	Carbaryl	21/Jun/16	0.05 <MDL	ug/L	N
November 20, 2015	Carbofuran	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Carbon tetrachloride	21/Jun/16	0.16 <MDL	ug/L	N
November 20, 2015	Chlorpyrifos	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Diazinon	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Dicamba	21/Jun/16	0.2 <MDL	ug/L	N
November 20, 2015	1,2-Dichlorobenzene	21/Jun/16	0.41 <MDL	ug/L	N
November 20, 2015	1,4-Dichlorobenzene	21/Jun/16	0.36 <MDL	ug/L	N
November 20, 2015	1,2-Dichloroethane	21/Jun/16	0.35 <MDL	ug/L	N
November 20, 2015	Dichloromethane	21/Jun/16	0.35 <MDL	ug/L	N
November 20, 2015	2,4-dichlorophenol	21/Jun/16	0.15 <MDL	ug/L	N
November 20, 2015	2,4-dichlorophenoxyacetic acid (2,4-D)	21/Jun/16	0.19 <MDL	ug/L	N
November 20, 2015	Diclofop-methyl	21/Jun/16	0.4 <MDL	ug/L	N
November 20, 2015	Dimethoate	21/Jun/16	0.03 <MDL	ug/L	N
November 20, 2015	Diquat	21/Jun/16	1 <MDL	ug/L	N
November 20, 2015	Diuron	21/Jun/16	0.03 <MDL	ug/L	N
November 20, 2015	Glyphosate	21/Jun/16	1 <MDL	ug/L	N
November 20, 2015	Malathion	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	MCPA	21/Jun/16	0.00012 <MDL	mg/L	N
November 20, 2015	Metolachlor	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Metribuzin	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Paraquat	21/Jun/16	1 <MDL	ug/L	N
November 20, 2015	Pentachlorophenol	21/Jun/16	0.15 <MDL	ug/L	N
November 20, 2015	Phorate	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Picloram	21/Jun/16	1 <MDL	ug/L	N
November 20, 2015	Polychlorinated Biphenyls (PCBs)	21/Jun/16	0.04 <MDL	ug/L	N
November 20, 2015	Prometryne	21/Jun/16	0.03 <MDL	ug/L	N
November 20, 2015	Simazine	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Terbufos	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	2,3,4,6-tetrachlorophenol	21/Jun/16	0.2 <MDL	ug/L	N
November 20, 2015	Triallate	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Trichloroethylene	21/Jun/16	0.44 <MDL	ug/L	N
November 20, 2015	2,4,6-trichlorophenol	21/Jun/16	0.25 <MDL	ug/L	N
November 20, 2015	Trifluralin	21/Jun/16	0.02 <MDL	ug/L	N



November 20, 2015	Trihalomethanes (total)	9/Mar/16	17	ug/L	N
November 20, 2015	Bromodichloromethane	9/Mar/16	5.4	ug/L	N
November 20, 2015	Bromoform	9/Mar/16	0.34 <MDL	ug/L	N
November 20, 2015	Chloroform	9/Mar/16	11	ug/L	N
November 20, 2015	Dibromochloromethane	9/Mar/16	1.5	ug/L	N
November 20, 2015	Trihalomethanes (total)	21/Jun/16	21	ug/L	N
November 20, 2015	Bromodichloromethane	21/Jun/16	6.4	ug/L	N
November 20, 2015	Bromoform	21/Jun/16	0.34 <MDL	ug/L	N
November 20, 2015	Chloroform	21/Jun/16	12	ug/L	N
November 20, 2015	Dibromochloromethane	21/Jun/16	3	ug/L	N
November 20, 2015	Trihalomethanes (total)	7/Sep/16	20	ug/L	N
November 20, 2015	Bromodichloromethane	7/Sep/16	5.7	ug/L	N
November 20, 2015	Bromoform	7/Sep/16	0.34 <MDL	ug/L	N
November 20, 2015	Chloroform	7/Sep/16	11	ug/L	N
November 20, 2015	Dibromochloromethane	7/Sep/16	2.7	ug/L	N
November 20, 2015	Trihalomethanes (total)	21/Dec/16	13	ug/L	N
November 20, 2015	Bromodichloromethane	21/Dec/16	4.8	ug/L	N
November 20, 2015	Bromoform	21/Dec/16	0.34 <MDL	ug/L	N
November 20, 2015	Chloroform	21/Dec/16	6.2	ug/L	N
November 20, 2015	Dibromochloromethane	21/Dec/16	2.2	ug/L	N
November 20, 2015	Vinyl Chloride	21/Jun/16	0.17 <MDL	ug/L	N



c) NON-REGULATED INORGANIC/ORGANIC PARAMETERS

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
November 20, 2015	Alkalinity	21/Jun/16	73	g/L as CaCC	N
November 20, 2015	Aluminum	21/Jun/16	30.9	ug/L	N
November 20, 2015	Ammonia+Ammonium (N)	21/Jun/16	0.04 <MDL	mg/L	N
November 20, 2015	Calcium	21/Jun/16	27.6	mg/L	N
November 20, 2015	Chloride	21/Jun/16	9	mg/L	N
November 20, 2015	Cobalt	21/Jun/16	0.005	ug/L	N
November 20, 2015	Colour	21/Jun/16	3 <MDL	TCU	N
November 20, 2015	Conductivity	21/Jun/16	254	uS/cm	N
November 20, 2015	Copper	21/Jun/16	3.18	ug/L	N
November 20, 2015	Cyanide	21/Jun/16	0.002 <MDL	mg/L	N
November 20, 2015	1,1-Dichloroethylene (vinylidene chloride)	21/Jun/16	0.33 <MDL	ug/L	N
November 20, 2015	Dissolved Organic Carbon	21/Jun/16	1.3	mg/L	N
November 20, 2015	Ethylbenzene	21/Jun/16	0.33 <MDL	ug/L	N
November 20, 2015	Hardness	21/Jun/16	101	g/L as CaCC	N
November 20, 2015	Iron	21/Jun/16	7 <MDL	ug/L	N
November 20, 2015	Langelier's Index	21/Jun/16	-0.3	no unit	N
November 20, 2015	Magnesium	21/Jun/16	7.78	mg/L	N
November 20, 2015	Manganese	21/Jun/16	0.06	ug/L	N
November 20, 2015	Monochlorobenzene	21/Jun/16	0.3 <MDL	ug/L	N
November 20, 2015	Nickel	21/Jun/16	0.3	ug/L	N
November 20, 2015	Nitrogen-Kjeldahl (N)	21/Jun/16	0.2	mg/L	N
November 20, 2015	Organic Nitrogen	21/Jun/16	0.2	mg/L	N
November 20, 2015	pH	21/Jun/16	8	no unit	N
November 20, 2015	Phosphorus	21/Jun/16	0.003	mg/L	N
November 20, 2015	Potassium	21/Jun/16	0.996	mg/L	N
November 20, 2015	Silica Dioxide	21/Jun/16	1.99	mg/L	N
November 20, 2015	Silver	21/Jun/16	0.002 <MDL	ug/L	N
November 20, 2015	Solids (Total Dissolved)	21/Jun/16	140	mg/L	N
November 20, 2015	Sulphate	21/Jun/16	30	mg/L	N
November 20, 2015	Sulphide	21/Jun/16	0.01 <MDL	mg/L	N
November 20, 2015	Surr 1,2-Dichloroethane-d4	21/Jun/16	104	Surr Rec %	N
November 20, 2015	Surr 4-Bromofluorobenzene	21/Jun/16	88	Surr Rec %	N
November 20, 2015	Surr Decachlorobiphenyl	21/Jun/16	68	%	N
November 20, 2015	Tetrachloroethylene (perchloroethylene)	21/Jun/16	0.35 <MDL	ug/L	N
November 20, 2015	Toluene	21/Jun/16	0.36 <MDL	ug/L	N
November 20, 2015	2,4,5-TP (Silvex)	21/Jun/16	0.18 <MDL	ug/L	N
November 20, 2015	Toxaphene	21/Jun/16	5 <MDL	ug/L	N
November 20, 2015	Turbidity	21/Jun/16	0.16	NTU	N
November 20, 2015	Xylene (Total)	21/Jun/16	0.43 <MDL	ug/L	N
November 20, 2015	m/p-Xylene	21/Jun/16	0.43 <MDL	ug/L	N
November 20, 2015	o-xylene	21/Jun/16	0.17 <MDL	ug/L	N
November 20, 2015	Zinc	21/Jun/16	3	ug/L	N



SITE: Highbury Ave. at Dingman Dr. - Treated Distribution

a) INORGANIC PARAMETERS (including lead, sodium, nitrate, nitrite, and fluoride)

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
November 20, 2015	Antimony	21/Jun/16	0.34	ug/L	N
November 20, 2015	Arsenic	21/Jun/16	1.70	ug/L	N
November 20, 2015	Barium	21/Jun/16	20.80	ug/L	N
November 20, 2015	Boron	21/Jun/16	22.00	ug/L	N
November 20, 2015	Cadmium	21/Jun/16	0.01	ug/L	N
November 20, 2015	Chromium	21/Jun/16	0.46	ug/L	N
November 20, 2015	Fluoride	6/Jan/16	0.54	mg/L	N
November 20, 2015	Fluoride	13/Jan/16	0.52	mg/L	N
November 20, 2015	Fluoride	20/Jan/16	0.46	mg/L	N
November 20, 2015	Fluoride	27/Jan/16	0.53	mg/L	N
November 20, 2015	Fluoride	3/Feb/16	0.5	mg/L	N
November 20, 2015	Fluoride	10/Feb/16	0.59	mg/L	N
November 20, 2015	Fluoride	17/Feb/16	0.56	mg/L	N
November 20, 2015	Fluoride	24/Feb/16	0.5	mg/L	N
November 20, 2015	Fluoride	2/Mar/16	0.54	mg/L	N
November 20, 2015	Fluoride	9/Mar/16	0.47	mg/L	N
November 20, 2015	Fluoride	16/Mar/16	0.54	mg/L	N
November 20, 2015	Fluoride	23/Mar/16	0.54	mg/L	N
November 20, 2015	Fluoride	30/Mar/16	0.57	mg/L	N
November 20, 2015	Fluoride	6/Apr/16	0.54	mg/L	N
November 20, 2015	Fluoride	13/Apr/16	0.54	mg/L	N
November 20, 2015	Fluoride	20/Apr/16	0.54	mg/L	N
November 20, 2015	Fluoride	27/Apr/16	0.58	mg/L	N
November 20, 2015	Fluoride	4/May/16	0.56	mg/L	N
November 20, 2015	Fluoride	11/May/16	0.59	mg/L	N
November 20, 2015	Fluoride	18/May/16	0.54	mg/L	N
November 20, 2015	Fluoride	25/May/16	0.54	mg/L	N
November 20, 2015	Fluoride	1/Jun/16	0.45	mg/L	N
November 20, 2015	Fluoride	8/Jun/16	0.57	mg/L	N
November 20, 2015	Fluoride	15/Jun/16	0.53	mg/L	N
November 20, 2015	Fluoride	22/Jun/16	0.55	mg/L	N
November 20, 2015	Fluoride	29/Jun/16	0.61	mg/L	N
November 20, 2015	Fluoride	6/Jul/16	0.56	mg/L	N
November 20, 2015	Fluoride	13/Jul/16	0.54	mg/L	N
November 20, 2015	Fluoride	20/Jul/16	0.55	mg/L	N
November 20, 2015	Fluoride	27/Jul/16	0.58	mg/L	N
November 20, 2015	Fluoride	3/Aug/16	0.69	mg/L	N
November 20, 2015	Fluoride	10/Aug/16	0.67	mg/L	N
November 20, 2015	Fluoride	17/Aug/16	0.65	mg/L	N
November 20, 2015	Fluoride	24/Aug/16	0.66	mg/L	N
November 20, 2015	Fluoride	31/Aug/16	0.63	mg/L	N
November 20, 2015	Fluoride	6/Sep/16	0.63	mg/L	N
November 20, 2015	Fluoride	14/Sep/16	0.63	mg/L	N



November 20, 2015	Fluoride	21/Sep/16	0.66	mg/L	N
November 20, 2015	Fluoride	28/Sep/16	0.65	mg/L	N
November 20, 2015	Fluoride	5/Oct/16	0.65	mg/L	N
November 20, 2015	Fluoride	12/Oct/16	0.63	mg/L	N
November 20, 2015	Fluoride	19/Oct/16	0.56	mg/L	N
November 20, 2015	Fluoride	26/Oct/16	0.56	mg/L	N
November 20, 2015	Fluoride	2/Nov/16	0.65	mg/L	N
November 20, 2015	Fluoride	9/Nov/16	0.62	mg/L	N
November 20, 2015	Fluoride	16/Nov/16	0.59	mg/L	N
November 20, 2015	Fluoride	23/Nov/16	0.59	mg/L	N
November 20, 2015	Fluoride	30/Nov/16	0.55	mg/L	N
November 20, 2015	Fluoride	14/Dec/16	0.57	mg/L	N
November 20, 2015	Fluoride	21/Dec/16	0.48	mg/L	N
November 20, 2015	Fluoride	28/Dec/16	0.51	mg/L	N
November 20, 2015	Mercury	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Nitrate (as nitrogen)	9/Mar/16	0.199	mg/L	N
November 20, 2015	Nitrate (as nitrogen)	9/Mar/16	0.199	mg/L	N
November 20, 2015	Nitrate (as nitrogen)	9/Mar/16	0.003 <MDL	mg/L	N
November 20, 2015	Nitrate (as nitrogen)	21/Jun/16	0.159	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	21/Jun/16	0.159	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	21/Jun/16	0.003 <MDL	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	7/Sep/16	0.134	mg/L	N
November 20, 2015	Nitrate + Nitrite (as nitrogen)	7/Sep/16	0.134	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	7/Sep/16	0.003 <MDL	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	21/Dec/16	0.114	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	21/Dec/16	0.114	mg/L	N
November 20, 2015	Nitrite (as nitrogen)	21/Dec/16	0.003 <MDL	mg/L	N
November 20, 2015	Selenium	21/Jun/16	0.24	ug/L	N
November 20, 2015	Sodium	21/Jun/16	16.90	mg/L	N
November 20, 2015	Uranium	21/Jun/16	0.07	ug/L	N



b) ORGANIC PARAMETERS (including THM)

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
November 20, 2015	Atrazine	21/Jun/16	0.03	ug/L	N
November 20, 2015	Atrazine + N-dealkylated metabolites	21/Jun/16	0.05	ug/L	N
November 20, 2015	De-ethylated Atrazine	21/Jun/16	0.01	ug/L	N
November 20, 2015	Azinphos-methyl	21/Jun/16	0.05 <MDL	ug/L	N
November 20, 2015	Benzene	21/Jun/16	0.32 <MDL	ug/L	N
November 20, 2015	Benzo(a)pyrene	21/Jun/16	0.00 <MDL	ug/L	N
November 20, 2015	Bromoxynil	21/Jun/16	0.33 <MDL	ug/L	N
November 20, 2015	Carbaryl	21/Jun/16	0.05 <MDL	ug/L	N
November 20, 2015	Carbofuran	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Carbon tetrachloride	21/Jun/16	0.16 <MDL	ug/L	N
November 20, 2015	Chlorpyrifos	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Diazinon	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Dicamba	21/Jun/16	0.20 <MDL	ug/L	N
November 20, 2015	1,2-Dichlorobenzene	21/Jun/16	0.41 <MDL	ug/L	N
November 20, 2015	1,4-Dichlorobenzene	21/Jun/16	0.36 <MDL	ug/L	N
November 20, 2015	1,2-Dichloroethane	21/Jun/16	0.35 <MDL	ug/L	N
November 20, 2015	Dichloromethane	21/Jun/16	0.35 <MDL	ug/L	N
November 20, 2015	2,4-dichlorophenol	21/Jun/16	0.15 <MDL	ug/L	N
November 20, 2015	2,4-dichlorophenoxyacetic acid (2,4-D)	21/Jun/16	0.19 <MDL	ug/L	N
November 20, 2015	Diclofop-methyl	21/Jun/16	0.40 <MDL	ug/L	N
November 20, 2015	Dimethoate	21/Jun/16	0.03 <MDL	ug/L	N
November 20, 2015	Diquat	21/Jun/16	1.00 <MDL	ug/L	N
November 20, 2015	Diuron	21/Jun/16	0.03 <MDL	ug/L	N
November 20, 2015	Glyphosate	21/Jun/16	1.00 <MDL	ug/L	N
November 20, 2015	Malathion	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	MCPA	21/Jun/16	0.00012 <MDL	mg/L	N
November 20, 2015	Metolachlor	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Metribuzin	21/Jun/16	0.02 <MDL	ug/L	N
November 20, 2015	Paraquat	21/Jun/16	1.00 <MDL	ug/L	N
November 20, 2015	Pentachlorophenol	21/Jun/16	0.15 <MDL	ug/L	N
November 20, 2015	Phorate	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Picloram	21/Jun/16	1.00 <MDL	ug/L	N
November 20, 2015	Polychlorinated Biphenyls (PCBs)	21/Jun/16	0.04 <MDL	ug/L	N
November 20, 2015	Prometryne	21/Jun/16	0.03 <MDL	ug/L	N
November 20, 2015	Simazine	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Terbufos	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	2,3,4,6-tetrachlorophenol	21/Jun/16	0.20 <MDL	ug/L	N
November 20, 2015	Triallate	21/Jun/16	0.01 <MDL	ug/L	N
November 20, 2015	Trichloroethylene	21/Jun/16	0.44 <MDL	ug/L	N
November 20, 2015	2,4,6-trichlorophenol	21/Jun/16	0.25 <MDL	ug/L	N
November 20, 2015	Trifluralin	21/Jun/16	0.02 <MDL	ug/L	N



November 20, 2015	Trihalomethanes (total)	9/Mar/16	13	ug/L	N
November 20, 2015	Bromodichloromethane	9/Mar/16	4.7	ug/L	N
November 20, 2015	Bromoform	9/Mar/16	0.34 <MDL	ug/L	N
November 20, 2015	Chloroform	9/Mar/16	5.5	ug/L	N
November 20, 2015	Dibromochloromethane	9/Mar/16	2.6	ug/L	N
November 20, 2015	Trihalomethanes (total)	21/Jun/16	22	ug/L	N
November 20, 2015	Bromodichloromethane	21/Jun/16	7.2	ug/L	N
November 20, 2015	Bromoform	21/Jun/16	0.34 <MDL	ug/L	N
November 20, 2015	Chloroform	21/Jun/16	11	ug/L	N
November 20, 2015	Dibromochloromethane	21/Jun/16	3.9	ug/L	N
November 20, 2015	Trihalomethanes (total)	7/Sep/16	34	ug/L	N
November 20, 2015	Bromodichloromethane	7/Sep/16	8.8	ug/L	N
November 20, 2015	Bromoform	7/Sep/16	0.34 <MDL	ug/L	N
November 20, 2015	Chloroform	7/Sep/16	21	ug/L	N
November 20, 2015	Dibromochloromethane	7/Sep/16	3.6	ug/L	N
November 20, 2015	Trihalomethanes (total)	21/Dec/16	15	ug/L	N
November 20, 2015	Bromodichloromethane	21/Dec/16	5.3	ug/L	N
November 20, 2015	Bromoform	21/Dec/16	0.34 <MDL	ug/L	N
November 20, 2015	Chloroform	21/Dec/16	6.6	ug/L	N
November 20, 2015	Dibromochloromethane	21/Dec/16	3	ug/L	N
November 20, 2015	Vinyl Chloride	21/Jun/16	0.17 <MDL	ug/L	N



c) NON-REGULATED INORGANIC/ORGANIC PARAMETERS

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
November 20, 2015	Alkalinity	21/Jun/16	88.00	g/L as CaCO ₃	N
November 20, 2015	Aluminum	21/Jun/16	21.70	ug/L	N
November 20, 2015	Ammonia+Ammonium (N)	21/Jun/16	0.09	mg/L	N
November 20, 2015	Calcium	21/Jun/16	34.40	mg/L	N
November 20, 2015	Chloride	21/Jun/16	17.00	mg/L	N
November 20, 2015	Cobalt	21/Jun/16	0.02	ug/L	N
November 20, 2015	Colour	21/Jun/16	3.00 <MDL	TCU	N
November 20, 2015	Conductivity	21/Jun/16	297.00	uS/cm	N
November 20, 2015	Copper	21/Jun/16	2.31	ug/L	N
November 20, 2015	Cyanide	21/Jun/16	0.00 <MDL	mg/L	N
November 20, 2015	1,1-Dichloroethylene (vinylidene chloride)	21/Jun/16	0.33 <MDL	ug/L	N
November 20, 2015	Dissolved Organic Carbon	21/Jun/16	1.80	mg/L	N
November 20, 2015	Ethylbenzene	21/Jun/16	0.33 <MDL	ug/L	N
November 20, 2015	Hardness	21/Jun/16	122.00	g/L as CaCO ₃	N
November 20, 2015	Iron	21/Jun/16	12.00	ug/L	N
November 20, 2015	Langelier's Index	21/Jun/16	-0.29	no unit	N
November 20, 2015	Magnesium	21/Jun/16	8.78	mg/L	N
November 20, 2015	Manganese	21/Jun/16	0.46	ug/L	N
November 20, 2015	Monochlorobenzene	21/Jun/16	0.30 <MDL	ug/L	N
November 20, 2015	Nickel	21/Jun/16	0.60	ug/L	N
November 20, 2015	Nitrogen-Kjeldahl (N)	21/Jun/16	0.14	mg/L	N
November 20, 2015	Organic Nitrogen	21/Jun/16	0.05	mg/L	N
November 20, 2015	pH	21/Jun/16	7.84	no unit	N
November 20, 2015	Phosphorus	21/Jun/16	0.00 <MDL	mg/L	N
November 20, 2015	Potassium	21/Jun/16	1.50	mg/L	N
November 20, 2015	Silica Dioxide	21/Jun/16	0.94	mg/L	N
November 20, 2015	Silver	21/Jun/16	0.00 <MDL	ug/L	N
November 20, 2015	Solids (Total Dissolved)	21/Jun/16	183.00	mg/L	N
November 20, 2015	Sulphate	21/Jun/16	30.00	mg/L	N
November 20, 2015	Sulphide	21/Jun/16	0.01 <MDL	mg/L	N
November 20, 2015	Surr 1,2-Dichloroethane-d4	21/Jun/16	105.00	Surr Rec %	N
November 20, 2015	Surr 4-Bromofluorobenzene	21/Jun/16	87.00	Surr Rec %	N
November 20, 2015	Surr Decachlorobiphenyl	21/Jun/16	73.00	%	N
November 20, 2015	Tetrachloroethylene (perchloroethylene)	21/Jun/16	0.35 <MDL	ug/L	N
November 20, 2015	Toluene	21/Jun/16	0.36 <MDL	ug/L	N
November 20, 2015	2,4,5-TP (Silvex)	21/Jun/16	0.18 <MDL	ug/L	N
November 20, 2015	Toxaphene	21/Jun/16	5.00 <MDL	ug/L	N
November 20, 2015	Turbidity	21/Jun/16	0.36	NTU	N
November 20, 2015	Xylene (Total)	21/Jun/16	0.43 <MDL	ug/L	N
November 20, 2015	m/p-Xylene	21/Jun/16	0.43 <MDL	ug/L	N
November 20, 2015	o-xylene	21/Jun/16	0.17 <MDL	ug/L	N
November 20, 2015	Zinc	21/Jun/16	3.00	ug/L	N

Summary of Inorganic/Organic parameters tested during this reporting period.

As outlined below, sampling was carried out for THM's at 214 Rathowan St. and 4318 Colonel Talbot Rd.

SITE: Fire Hydrant at 214 Rathowan St. - Treated Distribution

b) ORGANIC PARAMETERS (THM)

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
December 17, 2010	Trihalomethanes (total)	9/Mar/16	18	ug/L	N
December 17, 2010	(bromodichloromethane)	9/Mar/16	5.5	ug/L	N
December 17, 2010	(bromoform)	9/Mar/16	0.34 <MDL	ug/L	N
December 17, 2010	(chloroform)	9/Mar/16	11	ug/L	N
December 17, 2010	(dibromochloromethane)	9/Mar/16	1.5	ug/L	N
December 17, 2010	Trihalomethanes (total)	21/Jun/16	26	ug/L	N
December 17, 2010	(bromodichloromethane)	21/Jun/16	7.2	ug/L	N
December 17, 2010	(bromoform)	21/Jun/16	0.34 <MDL	ug/L	N
December 17, 2010	(chloroform)	21/Jun/16	16	ug/L	N
December 17, 2010	(dibromochloromethane)	21/Jun/16	3.2	ug/L	N
December 17, 2010	Trihalomethanes (total)	7/Sep/16	23	ug/L	N
December 17, 2010	(bromodichloromethane)	7/Sep/16	6.2	ug/L	N
December 17, 2010	(bromoform)	7/Sep/16	0.34 <MDL	ug/L	N
December 17, 2010	(chloroform)	7/Sep/16	14	ug/L	N
December 17, 2010	(dibromochloromethane)	7/Sep/16	2.7	ug/L	N
November 20, 2015	Trihalomethanes (total)	21/Dec/16	17	ug/L	N
November 20, 2015	(bromodichloromethane)	21/Dec/16	5.9	ug/L	N
November 20, 2015	(bromoform)	21/Dec/16	0.34 <MDL	ug/L	N
November 20, 2015	(chloroform)	21/Dec/16	9	ug/L	N
November 20, 2015	(dibromochloromethane)	21/Dec/16	2.6	ug/L	N



SITE: 4318 Colonel Talbot Rd. - Treated Distribution

b) ORGANIC PARAMETERS (THM)

Date of Municipal Drinking Water Licence	Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
December 17, 2010	Trihalomethanes (total)	9/Mar/16	15	ug/L	N
December 17, 2010	(bromodichloromethane)	9/Mar/16	5.4	ug/L	N
December 17, 2010	(bromoform)	9/Mar/16	0.34 <MDL	ug/L	N
December 17, 2010	(chloroform)	9/Mar/16	6.5	ug/L	N
December 17, 2010	(dibromochloromethane)	9/Mar/16	2.8	ug/L	N
December 17, 2010	Trihalomethanes (total)	21/Jun/16	32	ug/L	N
December 17, 2010	(bromodichloromethane)	21/Jun/16	8.1	ug/L	N
December 17, 2010	(bromoform)	21/Jun/16	0.34 <MDL	ug/L	N
December 17, 2010	(chloroform)	21/Jun/16	20	ug/L	N
December 17, 2010	(dibromochloromethane)	21/Jun/16	3.5	ug/L	N
December 17, 2010	Trihalomethanes (total)	7/Sep/16	40	ug/L	N
December 17, 2010	(bromodichloromethane)	7/Sep/16	9.2	ug/L	N
December 17, 2010	(bromoform)	7/Sep/16	0.34 <MDL	ug/L	N
December 17, 2010	(chloroform)	7/Sep/16	27	ug/L	N
December 17, 2010	(dibromochloromethane)	7/Sep/16	3.9	ug/L	N
November 20, 2015	Trihalomethanes (total)	21/Dec/16	26	ug/L	N
November 20, 2015	(bromodichloromethane)	21/Dec/16	7.5	ug/L	N
November 20, 2015	(bromoform)	21/Dec/16	0.34 <MDL	ug/L	N
November 20, 2015	(chloroform)	21/Dec/16	15	ug/L	N
November 20, 2015	(dibromochloromethane)	21/Dec/16	3.2	ug/L	N



List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

None.

2016 Summary of Water Pumpage



London
CANADA

DAY	DATE	ELGIN PUMPAGE (m ³)	ARVA PUMPAGE (m ³)	TOTAL LONDON CONSUMPTION (m ³)
Rated Capacity	-	95,800 m³ / day	318,000 m³ / day	413,800 m³ / day
Friday	1/Jan/16	28,126	77,134	98,495
Saturday	2/Jan/16	25,155	77,534	103,591
Sunday	3/Jan/16	25,189	86,857	116,981
Monday	4/Jan/16	25,176	90,550	120,487
Tuesday	5/Jan/16	25,119	94,661	116,398
Wednesday	6/Jan/16	25,153	95,403	114,919
Thursday	7/Jan/16	25,176	86,725	114,832
Friday	8/Jan/16	25,180	89,664	110,334
Saturday	9/Jan/16	25,167	80,539	111,794
Sunday	10/Jan/16	25,179	91,354	121,268
Monday	11/Jan/16	13,740	112,906	121,009
Tuesday	12/Jan/16	25,106	98,311	121,839
Wednesday	13/Jan/16	25,136	95,250	120,837
Thursday	14/Jan/16	12,153	108,954	113,666
Friday	15/Jan/16	25,171	80,874	108,300
Saturday	16/Jan/16	25,174	85,708	112,686
Sunday	17/Jan/16	25,126	95,774	122,253
Monday	18/Jan/16	24,214	95,315	118,852
Tuesday	19/Jan/16	25,143	95,308	118,422
Wednesday	20/Jan/16	25,252	90,796	115,371
Thursday	21/Jan/16	25,307	90,921	116,003
Friday	22/Jan/16	18,155	90,020	110,655
Saturday	23/Jan/16	25,151	91,754	114,650
Sunday	24/Jan/16	25,089	95,716	120,354
Monday	25/Jan/16	25,111	95,385	117,340
Tuesday	26/Jan/16	25,163	86,106	115,102
Wednesday	27/Jan/16	25,197	90,530	113,247
Thursday	28/Jan/16	25,136	86,269	112,757
Friday	29/Jan/16	25,154	86,954	111,883
Saturday	30/Jan/16	25,140	85,745	110,885
Sunday	31/Jan/16	25,092	91,100	113,035
January 2016 Monthly Max		25,307	112,906	122,253
January 2016 Monthly Average		24,080	91,433	115,325
January 2016 Total		722,404	2,742,983	3,459,750

DAY	DATE	ELGIN PUMPAGE (m ³)	ARVA PUMPAGE (m ³)	TOTAL LONDON CONSUMPTION (m ³)
Rated Capacity	-	95,800 m³ / day	318,000 m³ / day	413,800 m³ / day
Monday	1/Feb/16	25,221	89,798	113,215
Tuesday	2/Feb/16	25,247	81,926	113,487
Wednesday	3/Feb/16	17,019	95,641	115,366
Thursday	4/Feb/16	16,085	95,187	112,399
Friday	5/Feb/16	25,141	85,358	109,597
Saturday	6/Feb/16	25,138	86,714	110,950
Sunday	7/Feb/16	25,146	90,563	116,160
Monday	8/Feb/16	25,137	89,076	106,772
Tuesday	9/Feb/16	25,139	82,172	112,272
Wednesday	10/Feb/16	25,139	85,673	116,223
Thursday	11/Feb/16	25,139	90,963	114,299
Friday	12/Feb/16	25,085	91,170	106,784
Saturday	13/Feb/16	25,123	82,087	107,436
Sunday	14/Feb/16	25,119	77,060	106,012
Monday	15/Feb/16	25,132	82,721	112,588
Tuesday	16/Feb/16	25,133	86,516	109,620
Wednesday	17/Feb/16	25,124	81,472	109,302
Thursday	18/Feb/16	25,141	82,492	111,466
Friday	19/Feb/16	25,135	80,655	106,917
Saturday	20/Feb/16	25,136	71,227	109,667
Sunday	21/Feb/16	25,098	109,199	117,836
Monday	22/Feb/16	25,129	91,529	111,698
Tuesday	23/Feb/16	25,143	80,876	111,205
Wednesday	24/Feb/16	25,143	84,928	110,071
Thursday	25/Feb/16	25,121	85,854	113,004
Friday	26/Feb/16	25,130	87,473	109,897
Saturday	27/Feb/16	25,117	90,217	111,727
Sunday	28/Feb/16	25,123	89,661	116,813
Monday	29/Feb/16	25,106	90,297	112,021
February 2016 Monthly Max		25,247	109,199	117,836
February 2016 Monthly Max		24,544	86,845	111,545
February 2016 Total		711,789	2,518,505	3,234,804

DAY	DATE	ELGIN PUMPAGE (m ³)	ARVA PUMPAGE (m ³)	TOTAL LONDON CONSUMPTION (m ³)
Rated Capacity	-	95,800 m³ / day	318,000 m³ / day	413,800 m³ / day
Tuesday	1/Mar/16	25,106	85,750	109,503
Wednesday	2/Mar/16	25,104	85,579	111,134
Thursday	3/Mar/16	25,131	85,393	113,681
Friday	4/Mar/16	25,130	82,955	109,663
Saturday	5/Mar/16	25,151	89,916	111,910
Sunday	6/Mar/16	25,129	86,382	117,599
Monday	7/Mar/16	25,138	89,962	113,071
Tuesday	8/Mar/16	25,127	89,931	112,578
Wednesday	9/Mar/16	18,122	90,034	112,440
Thursday	10/Mar/16	25,131	81,617	112,159
Friday	11/Mar/16	24,740	97,581	110,145
Saturday	12/Mar/16	25,123	83,124	108,698
Sunday	13/Mar/16	25,124	87,228	110,999
Monday	14/Mar/16	25,122	86,530	110,525
Tuesday	15/Mar/16	18,118	85,600	108,679
Wednesday	16/Mar/16	25,132	82,878	111,166
Thursday	17/Mar/16	25,135	86,444	112,256
Friday	18/Mar/16	25,140	90,051	107,750
Saturday	19/Mar/16	25,121	82,658	110,034
Sunday	20/Mar/16	25,122	86,354	117,564
Monday	21/Mar/16	25,099	100,644	111,861
Tuesday	22/Mar/16	25,120	78,657	110,894
Wednesday	23/Mar/16	25,177	86,906	111,632
Thursday	24/Mar/16	25,136	82,347	106,581
Friday	25/Mar/16	25,128	79,037	107,097
Saturday	26/Mar/16	25,126	82,364	104,558
Sunday	27/Mar/16	25,133	83,003	106,783
Monday	28/Mar/16	25,156	87,134	112,741
Tuesday	29/Mar/16	25,163	86,523	113,039
Wednesday	30/Mar/16	25,198	82,518	113,353
Thursday	31/Mar/16	13,831	101,260	111,033
March 2016 Monthly Max		25,198	101,260	117,599
March 2016 Monthly Average		24,304	86,657	111,004
March 2016 Total		753,413	2,686,360	3,441,126

DAY	DATE	ELGIN PUMPAGE (m ³)	ARVA PUMPAGE (m ³)	TOTAL LONDON CONSUMPTION (m ³)
Rated Capacity	-	95,800 m³ / day	318,000 m³ / day	413,800 m³ / day
Friday	1/Apr/16	25,171	89,577	110,013
Saturday	2/Apr/16	22,332	82,117	111,213
Sunday	3/Apr/16	22,367	89,989	118,219
Monday	4/Apr/16	22,369	93,800	112,561
Tuesday	5/Apr/16	23,153	90,365	113,518
Wednesday	6/Apr/16	23,166	89,927	113,093
Thursday	7/Apr/16	23,169	78,912	112,002
Friday	8/Apr/16	23,166	100,817	110,454
Saturday	9/Apr/16	23,147	89,406	112,779
Sunday	10/Apr/16	23,157	97,435	116,984
Monday	11/Apr/16	23,151	86,280	112,588
Tuesday	12/Apr/16	23,158	89,754	113,588
Wednesday	13/Apr/16	16,448	94,377	115,109
Thursday	14/Apr/16	23,181	97,571	113,762
Friday	15/Apr/16	23,151	90,509	113,660
Saturday	16/Apr/16	23,149	93,529	116,002
Sunday	17/Apr/16	23,180	97,379	123,039
Monday	18/Apr/16	23,169	89,739	119,898
Tuesday	19/Apr/16	23,192	96,990	117,025
Wednesday	20/Apr/16	16,545	97,281	117,434
Thursday	21/Apr/16	23,106	93,477	111,172
Friday	22/Apr/16	23,100	86,870	108,842
Saturday	23/Apr/16	23,108	84,436	114,985
Sunday	24/Apr/16	23,119	98,005	121,349
Monday	25/Apr/16	23,196	95,797	118,317
Tuesday	26/Apr/16	23,181	96,129	112,771
Wednesday	27/Apr/16	23,184	90,781	120,730
Thursday	28/Apr/16	23,195	100,730	120,763
Friday	29/Apr/16	23,175	103,683	116,857
Saturday	30/Apr/16	23,170	98,640	118,271
April 2016 Monthly Max		25,171	103,683	123,039
April 2016 Monthly Average		22,702	92,810	115,233
April 2016 Total		681,055	2,784,302	3,456,998

DAY	DATE	ELGIN PUMPAGE (m ³)	ARVA PUMPAGE (m ³)	TOTAL LONDON CONSUMPTION (m ³)
Rated Capacity	-	95,800 m³ / day	318,000 m³ / day	413,800 m³ / day
Sunday	1/May/16	23,175	99,183	118,801
Monday	2/May/16	23,159	96,581	117,368
Tuesday	3/May/16	23,169	91,191	116,139
Wednesday	4/May/16	23,173	91,048	120,435
Thursday	5/May/16	0	110,206	121,682
Friday	6/May/16	23,200	96,050	121,010
Saturday	7/May/16	23,198	104,880	116,907
Sunday	8/May/16	23,176	94,253	116,839
Monday	9/May/16	23,077	115,219	131,497
Tuesday	10/May/16	18,150	95,666	123,270
Wednesday	11/May/16	20,430	104,294	127,963
Thursday	12/May/16	18,994	109,861	126,796
Friday	13/May/16	23,176	105,848	117,797
Saturday	14/May/16	23,145	96,243	114,345
Sunday	15/May/16	21,112	87,701	120,068
Monday	16/May/16	23,186	95,942	124,438
Tuesday	17/May/16	23,200	99,579	124,249
Wednesday	18/May/16	23,209	103,747	129,010
Thursday	19/May/16	23,094	113,553	134,300
Friday	20/May/16	23,086	118,892	132,837
Saturday	21/May/16	23,199	100,959	124,748
Sunday	22/May/16	23,192	100,328	127,354
Monday	23/May/16	22,271	108,908	149,945
Tuesday	24/May/16	19,156	121,821	145,926
Wednesday	25/May/16	23,109	131,490	154,018
Thursday	26/May/16	15,083	142,537	153,836
Friday	27/May/16	20,122	144,453	154,636
Saturday	28/May/16	23,111	149,505	162,615
Sunday	29/May/16	18,765	134,801	145,581
Monday	30/May/16	16,832	131,893	151,987
Tuesday	31/May/16	23,114	127,586	153,948
May 2016 Monthly Max		23,209	149,505	162,615
May 2016 Monthly Average		21,099	110,459	131,624
May 2016 Total		654,063	3,424,218	4,080,345

DAY	DATE	ELGIN PUMPAGE (m ³)	ARVA PUMPAGE (m ³)	TOTAL LONDON CONSUMPTION (m ³)
Rated Capacity	-	95,800 m³ / day	318,000 m³ / day	413,800 m³ / day
Wednesday	1/Jun/16	18,082	133,404	157,386
Thursday	2/Jun/16	23,139	136,528	163,483
Friday	3/Jun/16	22,738	141,250	159,287
Saturday	4/Jun/16	23,102	139,665	146,496
Sunday	5/Jun/16	23,329	104,047	132,122
Monday	6/Jun/16	23,069	107,980	132,828
Tuesday	7/Jun/16	7,073	116,580	126,320
Wednesday	8/Jun/16	23,172	99,829	131,260
Thursday	9/Jun/16	23,075	113,602	136,677
Friday	10/Jun/16	23,093	113,105	139,719
Saturday	11/Jun/16	23,111	122,256	152,106
Sunday	12/Jun/16	23,104	137,191	151,502
Monday	13/Jun/16	23,098	150,784	154,369
Tuesday	14/Jun/16	0	113,361	143,709
Wednesday	15/Jun/16	5,209	141,606	138,034
Thursday	16/Jun/16	23,138	109,303	135,668
Friday	17/Jun/16	23,118	126,655	149,479
Saturday	18/Jun/16	23,120	136,682	155,988
Sunday	19/Jun/16	23,138	149,338	174,237
Monday	20/Jun/16	14,301	147,031	160,158
Tuesday	21/Jun/16	23,106	145,530	167,463
Wednesday	22/Jun/16	7	147,704	160,877
Thursday	23/Jun/16	22,614	155,004	175,867
Friday	24/Jun/16	23,164	153,917	169,480
Saturday	25/Jun/16	23,149	156,025	175,066
Sunday	26/Jun/16	23,090	155,410	167,297
Monday	27/Jun/16	23,105	146,559	168,775
Tuesday	28/Jun/16	11,246	123,449	140,602
Wednesday	29/Jun/16	23,149	132,125	163,220
Thursday	30/Jun/16	32,642	109,595	177,356
June 2016 Monthly Max		32,642	156,025	177,356
June 2016 Monthly Average		19,883	132,184	153,561
June 2016 Total		596,481	3,965,515	4,606,831

DAY	DATE	ELGIN PUMPAGE (m ³)	ARVA PUMPAGE (m ³)	TOTAL LONDON CONSUMPTION (m ³)
Rated Capacity	-	95,800 m³ / day	318,000 m³ / day	413,800 m³ / day
Friday	1/Jul/16	23,077	145,573	121,751
Saturday	2/Jul/16	23,100	127,037	142,131
Sunday	3/Jul/16	23,147	122,454	165,387
Monday	4/Jul/16	23,146	151,204	179,044
Tuesday	5/Jul/16	23,172	154,997	179,631
Wednesday	6/Jul/16	10,168	153,219	163,970
Thursday	7/Jul/16	23,177	145,742	165,407
Friday	8/Jul/16	23,129	122,180	138,561
Saturday	9/Jul/16	23,075	122,608	130,605
Sunday	10/Jul/16	23,094	113,758	147,505
Monday	11/Jul/16	23,127	118,534	150,487
Tuesday	12/Jul/16	23,140	150,523	175,423
Wednesday	13/Jul/16	0	145,884	149,691
Thursday	14/Jul/16	23,097	138,317	143,777
Friday	15/Jul/16	23,088	122,737	134,851
Saturday	16/Jul/16	23,084	106,037	135,059
Sunday	17/Jul/16	23,094	121,288	144,678
Monday	18/Jul/16	23,119	128,079	157,412
Tuesday	19/Jul/16	0	145,839	160,542
Wednesday	20/Jul/16	23,162	141,061	161,583
Thursday	21/Jul/16	23,107	146,526	151,949
Friday	22/Jul/16	23,112	134,865	152,638
Saturday	23/Jul/16	23,122	132,395	158,187
Sunday	24/Jul/16	23,093	117,062	149,035
Monday	25/Jul/16	17,844	126,439	150,475
Tuesday	26/Jul/16	23,088	138,855	161,649
Wednesday	27/Jul/16	12,047	154,474	172,096
Thursday	28/Jul/16	23,113	131,957	137,683
Friday	29/Jul/16	23,078	124,895	140,253
Saturday	30/Jul/16	23,177	105,373	130,634
Sunday	31/Jul/16	23,143	98,881	119,343
July 2016 Monthly Max		23,177	154,997	179,631
July 2016 Monthly Average		20,681	131,897	150,692
July 2016 Total		641,120	4,088,793	4,671,437

DAY	DATE	ELGIN PUMPAGE (m ³)	ARVA PUMPAGE (m ³)	TOTAL LONDON CONSUMPTION (m ³)
Rated Capacity	-	95,800 m³ / day	318,000 m³ / day	413,800 m³ / day
Monday	1/Aug/16	23,172	100,171	131,660
Tuesday	2/Aug/16	23,085	113,779	143,663
Wednesday	3/Aug/16	23,098	128,150	148,004
Thursday	4/Aug/16	23,097	122,713	154,654
Friday	5/Aug/16	23,094	131,681	146,521
Saturday	6/Aug/16	23,098	118,079	143,831
Sunday	7/Aug/16	23,108	131,871	151,440
Monday	8/Aug/16	23,115	137,037	156,299
Tuesday	9/Aug/16	21,273	124,720	156,630
Wednesday	10/Aug/16	23,170	149,969	174,024
Thursday	11/Aug/16	6,031	145,659	135,125
Friday	12/Aug/16	23,630	99,043	135,403
Saturday	13/Aug/16	21,221	108,279	127,435
Sunday	14/Aug/16	21,206	113,858	134,474
Monday	15/Aug/16	21,075	124,308	138,868
Tuesday	16/Aug/16	0	118,913	129,853
Wednesday	17/Aug/16	21,100	118,376	134,167
Thursday	18/Aug/16	21,105	117,660	137,286
Friday	19/Aug/16	21,109	117,400	136,433
Saturday	20/Aug/16	21,225	109,727	132,732
Sunday	21/Aug/16	21,076	118,907	131,974
Monday	22/Aug/16	21,178	113,192	137,336
Tuesday	23/Aug/16	21,086	117,705	138,198
Wednesday	24/Aug/16	21,099	118,181	138,984
Thursday	25/Aug/16	21,205	108,762	134,416
Friday	26/Aug/16	23,096	117,531	135,584
Saturday	27/Aug/16	21,194	109,693	126,720
Sunday	28/Aug/16	21,183	100,570	134,221
Monday	29/Aug/16	21,090	113,208	139,902
Tuesday	30/Aug/16	21,096	120,307	138,453
Wednesday	31/Aug/16	15,110	126,324	136,708
August 2016 Monthly Max		23,630	149,969	174,024
August 2016 Monthly Average		20,498	119,218	140,032
August 2016 Total		635,425	3,695,773	4,340,998

DAY	DATE	ELGIN PUMPAGE (m ³)	ARVA PUMPAGE (m ³)	TOTAL LONDON CONSUMPTION (m ³)
Rated Capacity	-	95,800 m³ / day	318,000 m³ / day	413,800 m³ / day
Thursday	1/Sep/16	21,220	113,745	136,447
Friday	2/Sep/16	21,105	118,140	135,687
Saturday	3/Sep/16	21,217	112,994	130,652
Sunday	4/Sep/16	21,203	104,433	130,085
Monday	5/Sep/16	21,259	114,484	149,894
Tuesday	6/Sep/16	21,105	132,230	148,636
Wednesday	7/Sep/16	23,134	132,263	150,972
Thursday	8/Sep/16	23,221	104,481	142,990
Friday	9/Sep/16	23,123	117,589	138,073
Saturday	10/Sep/16	23,293	112,951	130,964
Sunday	11/Sep/16	23,105	118,694	140,035
Monday	12/Sep/16	22,063	129,136	140,270
Tuesday	13/Sep/16	23,186	114,335	140,191
Wednesday	14/Sep/16	23,075	118,609	139,607
Thursday	15/Sep/16	5,080	134,032	136,443
Friday	16/Sep/16	22,219	108,962	132,664
Saturday	17/Sep/16	23,226	108,253	127,326
Sunday	18/Sep/16	23,199	106,247	135,379
Monday	19/Sep/16	23,076	114,313	137,092
Tuesday	20/Sep/16	18,214	118,763	138,460
Wednesday	21/Sep/16	23,208	114,609	138,704
Thursday	22/Sep/16	18,061	118,203	140,983
Friday	23/Sep/16	23,228	114,137	131,462
Saturday	24/Sep/16	23,221	109,086	129,934
Sunday	25/Sep/16	23,216	109,820	135,706
Monday	26/Sep/16	23,114	90,221	126,002
Tuesday	27/Sep/16	22,236	103,197	130,420
Wednesday	28/Sep/16	23,300	107,126	133,929
Thursday	29/Sep/16	20,140	126,792	129,906
Friday	30/Sep/16	22,756	104,514	123,139
September 2016 Monthly Max		23,300	134,032	150,972
September 2016 Monthly Average		21,627	114,412	136,068
September 2016 Total		648,803	3,432,359	4,082,052

DAY	DATE	ELGIN PUMPAGE (m ³)	ARVA PUMPAGE (m ³)	TOTAL LONDON CONSUMPTION (m ³)
Rated Capacity	-	95,800 m³ / day	318,000 m³ / day	413,800 m³ / day
Saturday	1/Oct/16	23,129	100,356	122,299
Sunday	2/Oct/16	23,118	105,541	130,437
Monday	3/Oct/16	23,191	111,212	130,252
Tuesday	4/Oct/16	23,107	104,371	127,181
Wednesday	5/Oct/16	23,121	105,979	134,433
Thursday	6/Oct/16	23,024	104,092	130,065
Friday	7/Oct/16	23,121	108,978	125,597
Saturday	8/Oct/16	23,109	104,732	118,929
Sunday	9/Oct/16	23,111	89,625	110,946
Monday	10/Oct/16	23,104	91,525	127,110
Tuesday	11/Oct/16	23,176	104,822	126,515
Wednesday	12/Oct/16	23,137	100,240	128,698
Thursday	13/Oct/16	23,287	99,685	125,922
Friday	14/Oct/16	23,233	104,887	121,036
Saturday	15/Oct/16	23,261	95,869	120,905
Sunday	16/Oct/16	23,229	99,517	127,760
Monday	17/Oct/16	23,230	103,525	126,755
Tuesday	18/Oct/16	23,226	103,585	125,336
Wednesday	19/Oct/16	23,193	104,077	126,680
Thursday	20/Oct/16	23,199	106,969	123,071
Friday	21/Oct/16	0	119,657	116,394
Saturday	22/Oct/16	23,179	95,356	117,349
Sunday	23/Oct/16	22,007	95,640	124,172
Monday	24/Oct/16	23,191	95,355	120,618
Tuesday	25/Oct/16	23,188	94,280	121,892
Wednesday	26/Oct/16	0	122,679	122,679
Thursday	27/Oct/16	23,192	95,438	118,630
Friday	28/Oct/16	23,198	95,318	117,041
Saturday	29/Oct/16	23,214	95,804	116,659
Sunday	30/Oct/16	23,215	91,914	121,323
Monday	31/Oct/16	23,206	100,501	117,807
October 2016 Monthly Max		23,287	122,679	134,433
October 2016 Monthly Average		21,642	101,662	123,371
October 2016 Total		670,896	3,151,529	3,824,491

DAY	DATE	ELGIN PUMPAGE (m ³)	ARVA PUMPAGE (m ³)	TOTAL LONDON CONSUMPTION (m ³)
Rated Capacity	-	95,800 m³ / day	318,000 m³ / day	413,800 m³ / day
Tuesday	1/Nov/16	23,187	95,976	121,523
Wednesday	2/Nov/16	23,194	96,073	122,217
Thursday	3/Nov/16	23,214	97,962	121,766
Friday	4/Nov/16	23,219	100,284	114,054
Saturday	5/Nov/16	25,676	97,944	119,467
Sunday	6/Nov/16	25,714	94,802	123,779
Monday	7/Nov/16	25,713	95,571	119,208
Tuesday	8/Nov/16	25,684	90,935	118,695
Wednesday	9/Nov/16	25,710	92,746	120,532
Thursday	10/Nov/16	21,149	96,632	120,144
Friday	11/Nov/16	25,685	86,290	114,040
Saturday	12/Nov/16	25,735	89,883	115,028
Sunday	13/Nov/16	25,737	96,005	122,037
Monday	14/Nov/16	25,696	96,117	118,569
Tuesday	15/Nov/16	25,724	95,526	119,768
Wednesday	16/Nov/16	25,717	96,002	118,755
Thursday	17/Nov/16	25,690	91,326	118,200
Friday	18/Nov/16	25,692	86,109	115,948
Saturday	19/Nov/16	25,690	90,961	113,394
Sunday	20/Nov/16	25,724	90,618	120,778
Monday	21/Nov/16	22,126	95,121	116,657
Tuesday	22/Nov/16	25,603	90,903	115,032
Wednesday	23/Nov/16	25,692	89,916	114,126
Thursday	24/Nov/16	12,149	100,699	114,035
Friday	25/Nov/16	25,576	91,960	111,900
Saturday	26/Nov/16	25,629	83,171	113,546
Sunday	27/Nov/16	25,722	91,922	120,894
Monday	28/Nov/16	25,683	87,174	116,101
Tuesday	29/Nov/16	25,684	82,573	115,316
Wednesday	30/Nov/16	25,740	82,549	117,361
November 2016 Monthly Max		25,740	100,699	123,779
November 2016 Monthly Average		24,638	92,458	117,762
November 2016 Total		739,154	2,773,750	3,532,870

DAY	DATE	ELGIN PUMPAGE (m ³)	ARVA PUMPAGE (m ³)	TOTAL LONDON CONSUMPTION (m ³)
Rated Capacity	-	95,800 m³ / day	318,000 m³ / day	413,800 m³ / day
Thursday	1/Dec/16	25,726	82,350	117,096
Friday	2/Dec/16	25,764	96,415	113,868
Saturday	3/Dec/16	25,714	99,894	113,207
Sunday	4/Dec/16	25,735	99,576	119,899
Monday	5/Dec/16	13,666	95,194	115,399
Tuesday	6/Dec/16	10,179	104,832	117,717
Wednesday	7/Dec/16	10,217	109,899	120,567
Thursday	8/Dec/16	25,732	95,555	123,091
Friday	9/Dec/16	22,252	100,192	117,258
Saturday	10/Dec/16	22,214	95,441	121,713
Sunday	11/Dec/16	22,268	109,357	121,253
Monday	12/Dec/16	22,184	95,042	120,157
Tuesday	13/Dec/16	12,169	109,344	125,346
Wednesday	14/Dec/16	22,103	104,432	126,986
Thursday	15/Dec/16	12,193	114,843	130,193
Friday	16/Dec/16	22,229	104,688	119,927
Saturday	17/Dec/16	22,207	99,240	116,036
Sunday	18/Dec/16	22,208	97,167	129,521
Monday	19/Dec/16	9,910	119,669	125,972
Tuesday	20/Dec/16	15,088	113,513	122,964
Wednesday	21/Dec/16	22,190	95,407	117,146
Thursday	22/Dec/16	22,186	90,863	116,431
Friday	23/Dec/16	22,192	81,368	110,099
Saturday	24/Dec/16	19,331	85,814	110,331
Sunday	25/Dec/16	19,203	91,056	100,338
Monday	26/Dec/16	19,151	91,132	103,293
Tuesday	27/Dec/16	19,154	83,412	111,360
Wednesday	28/Dec/16	19,198	90,540	113,345
Thursday	29/Dec/16	18,020	95,224	111,891
Friday	30/Dec/16	20,194	86,716	110,518
Saturday	31/Dec/16	19,233	91,081	112,343
December 2016 Monthly Max		25,764	119,669	130,193
December 2016 Monthly Average		19,671	97,718	117,267
December 2016 Total		609,810	3,029,256	3,635,265